



Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung – UFZ

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahr 2024 erschienenen Publikationen, die von Beschäftigten des Helmholtz-Zentrums für Umweltforschung – UFZ verfasst, mitverfasst oder herausgegeben wurden.

Mit dem 01.01.2021 ist die Helmholtz-Gemeinschaft in die vierte Periode der programmorientierten Förderung (PoF IV) eingetreten. In der PoF IV ist das UFZ an einem einzigen Helmholtz-Forschungsprogramm, "Changing Earth - Sustaining our Future", des Forschungsbereichs Erde und Umwelt beteiligt, sodass alle UFZ-Publikationen diesem Programm und seinen Programm-Topics zugeordnet werden.

Redaktionsschluss für diese Publikationsliste war der 28.02.2025.

UFZ-Beschäftigte sind im Unterschied zu Externen bei allen Publikationen durch **fette Schrift** hervorgehoben.

Das anschließende Autorenregister verzeichnet die Namen der UFZ-Beschäftigten in alphabetischer Reihenfolge mit den laufenden Nummern der zugehörigen Publikationen.

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Veröffentlichungen in ISI/Scopus-gelisteten Zeitschriften/Schriftenreihen

1. **Abbas, G., Jomaa, S., Fink, P.,** Brosinsky, A., Nowak, K.M., Kümmel, S., Schkade, U.-K., **Rode, M.** (2024):
Investigating sediment sources using compound-specific stable isotopes and conventional fingerprinting methods in an agricultural loess catchment
Catena **246** , art. 108336 [10.1016/j.catena.2024.108336](https://doi.org/10.1016/j.catena.2024.108336)
2. **Abdulkadir, N., Saraiva, J.P., Zhang, J.,** Stolte, S., Gillor, O., Harms, H., Nunes da Rocha, U. (2024):
Genome-centric analyses of 165 metagenomes show that mobile genetic elements are crucial for the transmission of antimicrobial resistance genes to pathogens in activated sludge and wastewater
Microbiol. Spectr. **12** (3), e02918-23 [10.1128/spectrum.02918-23](https://doi.org/10.1128/spectrum.02918-23)
3. Aboutorabi, E., Ray, S.B., **Kaping, D.,** Shahbazi, F., Treue, S., Esghaei, M. (2024):
Phase of neural oscillations as a reference frame for attention-based routing in visual cortex
Prog. Neurobiol. **233** , art. 102563 [10.1016/j.pneurobio.2023.102563](https://doi.org/10.1016/j.pneurobio.2023.102563)
4. Abueg, L.A.L., Afgan, E., Allart, O., Awan, A.H., Bacon, W.A., Baker, D., Bassetti, M., Batut, B., **Bernt, M.,** Zoabi, R., et al., The Galaxy Community (2024):
The Galaxy platform for accessible, reproducible, and collaborative data analyses: 2024 update
Nucleic Acids Res. **52** (W1), W83 - W94 [10.1093/nar/gkae410](https://doi.org/10.1093/nar/gkae410)
5. Acuña, J.J., Rilling, J.I., Inostroza, N.G., Zhang, Q., **Wick, L.Y.,** Sessitsch, A., Jorquera, M.A. (2024):
Variovorax sp. strain P1R9 applied individually or as part of bacterial consortia enhances wheat germination under salt stress conditions
Sci. Rep. **14** , art. 2070 [10.1038/s41598-024-52535-0](https://doi.org/10.1038/s41598-024-52535-0)
6. Adamovsky, O., Groh, K.J., Białk-Bielińska, A., **Escher, B.I.,** Beaudouin, R., Mora Lagares, L., Tollefsen, K.E., Fenske, M., Mulkiewicz, E., Creusot, N., Sosnowska, A., Loureiro, S., Beyer, J., Repetto, G., Štern, A., Lopes, I., Monteiro, M., Zikova-Kloas, A., Eleršek, T., Vračko, M., Zdybel, S., Puzyn, T., Koczur, W., Ebsen Morthorst, J., Holbech, H., Carlsson, G., Örn, S., Herrero, Ó., **Siddique, A., Liess, M., Braun, G., Srebny, V.,** Žegura, B., Hinfrey, N., Brion, F., Knapen, D., Vandeputte, E., Stinckens, E., Vergauwen, L., Behrendt, L., Silva, M.J., Blaha, L., Kyriakopoulou, K. (2024):
Exploring BPA alternatives – Environmental levels and toxicity review
Environ. Int. **189** , art. 108728 [10.1016/j.envint.2024.108728](https://doi.org/10.1016/j.envint.2024.108728)

7. Ahmad, T., Muhammad, S., Umar, M., Azhar, M.U., Ahmed, A., Ahmed, A., **Ullah, R.** (2024):
Spatial distribution of physicochemical parameters and drinking and irrigation water quality indices in the Jhelum River, Pakistan
Environ. Geochem. Health **46** (8), art. 263 [10.1007/s10653-024-02026-y](https://doi.org/10.1007/s10653-024-02026-y)
8. **Ahmadi, P., Dichgans, F., Jagau, J., Schmidt, C., Aizinger, V., Gilfedder, B.S., Fleckenstein, J.H.** (2024):
Systematic CFD-based evaluation of physical factors influencing the spatiotemporal distribution patterns of microplastic particles in lakes
Sci. Total Environ. **917**, art. 170218 [10.1016/j.scitotenv.2024.170218](https://doi.org/10.1016/j.scitotenv.2024.170218)
9. **Akay, C., Ulrich, N., Ding, C., Nunes da Rocha, U., Adrian, L.** (2024):
Sequential anaerobic-aerobic treatment enhances sulfamethoxazole removal: From batch cultures to observations in a large-scale wastewater treatment plant
Environ. Sci. Technol. **58** (28), 12609 - 12620 [10.1021/acs.est.4c00368](https://doi.org/10.1021/acs.est.4c00368)
10. **Al Naggar, Y., Wubet, T.** (2024):
Chronic exposure to pesticides disrupts the bacterial and fungal co-existence and the cross-kingdom network characteristics of honey bee gut microbiome
Sci. Total Environ. **906**, art. 167530 [10.1016/j.scitotenv.2023.167530](https://doi.org/10.1016/j.scitotenv.2023.167530)
11. **Albracht, C., Solbach, M.D., Hennecke, J., Bassi, L., van der Ploeg, G.R., Eisenhauer, N., Weigelt, A., Buscot, F., Heintz-Buschart, A.** (2024):
Common soil history is more important than plant history for arbuscular mycorrhizal community assembly in an experimental grassland diversity gradient
Biol. Fert. Soils **60** (4), 547 - 562 [10.1007/s00374-024-01821-0](https://doi.org/10.1007/s00374-024-01821-0)
12. Albrecht, L., **Huth, A., Fischer, R.,** Papathanassiou, K., Antropov, O., Lehnert, L. (2024):
Estimating forest structure change by means of wavelet statistics using TanDEM-X datasets
15th European Conference on Synthetic Aperture Radar, Munich, Germany, 23-26 April 2024
Electronic Proceedings (EUSAR) 2024
Institute of Electrical and Electronics Engineers (IEEE), New York, NY, p. 1 - 5
13. **Aldehoff, A.S., Karkossa, I., Goerdeler, C., Krieg, L., Schor, J., Engelmann, B., Wabitsch, M., Landgraf, K., Hackermüller, J., Körner, A., Rolle-Kampczyk, U., Schubert, K., von Bergen, M.** (2024):
Unveiling the dynamics of acetylation and phosphorylation in SGBS and 3T3-L1 adipogenesis
iScience **27** (6), art. 109711 [10.1016/j.isci.2024.109711](https://doi.org/10.1016/j.isci.2024.109711)

14. Aleksza, D., Spiridon, A., **Tarkka, M.**, Hauser, M.-T., Hann, S., Causon, T., Kratena, N., Stanetty, C., George, T.S., Russell, J., Oburger, E. (2024):
Phytosiderophore pathway response in barley exposed to iron, zinc or copper starvation
Plant Sci. **339**, art. 111919 [10.1016/j.plantsci.2023.111919](https://doi.org/10.1016/j.plantsci.2023.111919)
15. Alencar, P.H.L., **Sodoge, J.**, Paton, E.N., **de Brito, M.M.** (2024):
Flash droughts and their impacts - using newspaper articles to assess the perceived consequences of rapidly emerging droughts
Environ. Res. Lett. **19** (7), art. 074048 [10.1088/1748-9326/ad58fa](https://doi.org/10.1088/1748-9326/ad58fa)
16. Ali, M.H., **Khan, M.I.**, Naveed, M., Tanvir, M.A. (2024):
Microbe-assisted rhizodegradation of hydrocarbons and growth enhancement of wheat plants in hydrocarbons contaminated soil
Int. J. Environ. Sci. Technol. **21** (3), 3169 - 3184 [10.1007/s13762-023-05174-3](https://doi.org/10.1007/s13762-023-05174-3)
17. **Altdorff, D.**, **Schrön, M.** (2024):
Score filtering for contextualized noise suppression of Poisson distributed geophysical signals
Near Surf. Geophys. **22** (6), 599 - 616 [10.1002/nsg.12324](https://doi.org/10.1002/nsg.12324)
18. **Altendorf, D.**, **Wienkenjohann, H.**, **Berger, F.**, Dehnert, J., Grünewald, H., Naumov, D., **Trabitzsch, R.**, **Weiß, H.** (2024):
Successful reduction of indoor radon activity concentration via cross-ventilation: experimental data and CFD simulations
Isot. Environ. Health Stud. **60** (1), 74 - 89 [10.1080/10256016.2023.2282686](https://doi.org/10.1080/10256016.2023.2282686)
19. Alzate, A., **Hagen, O.** (2024):
Dispersal-diversity feedbacks and their consequences for macroecological patterns
Philos. Trans. R. Soc. B-Biol. Sci. **379** (1907), art. 20230131 [10.1098/rstb.2023.0131](https://doi.org/10.1098/rstb.2023.0131)
20. **Anand, M.**, Hamed, R., Linscheid, N., Silva, P.S., Andre, J., **Zscheischler, J.**, Garry, F.K., Bastos, A. (2024):
Winter climate preconditioning of summer vegetation extremes in the Northern Hemisphere
Environ. Res. Lett. **19** (9), art. 094045 [10.1088/1748-9326/ad627d](https://doi.org/10.1088/1748-9326/ad627d)
21. Angenent, L.T., Casini, I., Schröder, U., **Harnisch, F.**, Molitor, B. (2024):
Electrical-energy storage into chemical-energy carriers by combining or integrating electrochemistry and biology
Energy Environ. Sci. **17** (11), 3682 - 3699 [10.1039/D3EE01091K](https://doi.org/10.1039/D3EE01091K)

22. Anguelovski, I., Oscilowicz, E., Connolly, J.J.T., García-Lamarca, M., **Perez-del-Pulgar, C.**, Cole, H.V.S., Immergluck, D., Triguero-Mas, M., Baró, F., Martin, N., Conesa, D., Shokry, G., Argüelles Ramos, L., Matheney, A., Gallez, E., López Máñez, J., Sarzo, B., Beltrán, M.A., Martínez-Minaya, J. (2024):
Does greening generate exclusive residential real estate development? Contrasting experiences from North America and Europe
Urban For. Urban Green. **101**, art. 128376 [10.1016/j.ufug.2024.128376](https://doi.org/10.1016/j.ufug.2024.128376)
23. Arenas-Castro, H., Berdejo-Espinola, V., **Chowdhury, S.**, Rodríguez-Contreras, A., James, A.R.M., Nussaibah, B.R., Dunne, E.M., Bertolino, S., Emidio, N.B., Derez, C.M., Drobniak, S.M., Fulton, G.R., Henao-Diaz, L.F., Kaur, A., Kim, C.J.S., Lagisz, M., Medina, I., Mikula, P., Narayan, V.P., O'Bryan, C.J., **Oh, R.R.Y.**, Ovsyanikova, E., Pérez-Hämmerle, K.-V., Pottier, P., Powers, J.S., Rodríguez-Acevedo, A.J., Rozak, A.H., Sena, P.H.A., Sockhill, N.J., Tedesco, A.M., Tiapa-Blanco, F., Tsai, J.-S., Villarreal-Rosas, J., Wadgyamar, S.M., Yamamichi, M., Amano, T. (2024):
Academic publishing requires linguistically inclusive policies
Proc. R. Soc. B-Biol. Sci. **291** (2018), art. 20232840 [10.1098/rspb.2023.2840](https://doi.org/10.1098/rspb.2023.2840)
24. Argens, L., Weisser, W.W., Ebeling, A., Eisenhauer, N., Lange, M., Oelmann, Y., **Roscher, C.**, Schielzeth, H., Schmid, B., Wilcke, W., Meyer, S.T. (2024):
Relationships between ecosystem functions vary among years and plots and are driven by plant species richness
Oikos **2024** (1), e10096 [10.1111/oik.10096](https://doi.org/10.1111/oik.10096)
25. Arheimer, B., Cudennec, C., Castellarin, A., Grimaldi, S., Heal, K.V., **de Brito, M.M.**, Mahé, G., et al. (2024):
The IAHS Science for Solutions decade, with Hydrology Engaging Local People IN a Global world (HELPING)
Hydrol. Sci. J.-J. Sci. Hydrol. **69** (11), 1417 - 1435 [10.1080/02626667.2024.2355202](https://doi.org/10.1080/02626667.2024.2355202)
26. Arlé, E., **Knight, T.M.**, Jiménez-Muñoz, M., Biancolini, D., Belmaker, J., Meyer, C. (2024):
The cumulative niche approach: A framework to assess the performance of ecological niche model projections
Ecol. Evol. **14** (2), e11060 [10.1002/ece3.11060](https://doi.org/10.1002/ece3.11060)
27. Armanu, G.E., Secula, S., Cimpoesu, N., **Heipieper, H.J.**, Volf, I. (2024):
A biobased nano/micro-structured material for microorganisms' immobilization
24th International Multidisciplinary Scientific Geoconference: Nano, Bio, Green and Space - Technologies for a Sustainable Future, Albena, 1-7 July 2024
SGEM Conference Proceedings *SGEM 2024*
SGEM, p. 3 - 10 [10.5593/sgem2024/6.1/s24.01](https://doi.org/10.5593/sgem2024/6.1/s24.01)

28. Arp, H.P.H., Wolf, R., Hale, S.E., Baskaran, S., Glüge, J., Scheringer, M., Trier, X., Cousins, I.T., Timmer, H., Hofman-Caris, R., Lennquist, A., Bannink, A.D., Stroomberg, G.J., Sjerps, R.M.A., Montes, R., Rodil, R., Quintana, J.B., **Zahn, D.**, Gallard, H., Mohr, T., Schliebner, I., Neumann, M. (2024):
Letter to the editor regarding Collard et al. (2023): "Persistence and mobility (defined as organic-carbon partitioning) do not correlate to the detection of substances found in surface and groundwater: Criticism of the regulatory concept of persistent and mobile substances"
Sci. Total Environ. **906** , art. 165927 [10.1016/j.scitotenv.2023.165927](https://doi.org/10.1016/j.scitotenv.2023.165927)
29. Arshad, M.J., **Khan, M.I.**, Ali, M.H., Farooq, Q., Hussain, M.I., Seleiman, M.F., Asghar, M.A. (2024):
Enhanced wheat productivity in saline soil through the combined application of poultry manure and beneficial microbes
BMC Plant Biol. **24** , art. 423 [10.1186/s12870-024-05137-x](https://doi.org/10.1186/s12870-024-05137-x)
30. Asaba, C.N., Ekabe, C.J., **Ayuk, H.S.**, Gwanyama, B.N., Bitazar, R., Bukong, T.N. (2024):
Interplay of TLR4 and SARS-CoV-2: Unveiling the complex mechanisms of inflammation and severity in COVID-19 infections
J. Inflamm. Res. **17** , 5077 - 5091 [10.2147/JIR.S474707](https://doi.org/10.2147/JIR.S474707)
31. **Asadi, J., Dietrich, P., Paasche, H.** (2024):
Quantification of the uncertainty of geoscientific maps relying on human sensory engagement
Environ. Earth Sci. **83** (19), art. 557 [10.1007/s12665-024-11870-1](https://doi.org/10.1007/s12665-024-11870-1)
32. Askri, D., Pottier, M., Arafah, K., Voisin, S.N., Hodge, S., Stout, J.C., **Dominik, C., Schweiger, O.**, Tamburini, G., Pereira-Peixoto, M.H., Martínez López, V., De la Rúa, P., Cini, E., Potts, S.G., Schwarz, J.M., Knauer, A.C., Albrecht, M., Raimets, R., Karise, R., di Prisco, G., Ivarsson, K., Svensson, G., Ronsevy, O., Knapp, J.L., Rundlöf, M., Onorati, P., de Miranda, J.R., Bocquet, M., Bulet, P. (2024):
A blood test to monitor bee health across a European network of agricultural sites of different land-use by MALDI BeeTyping mass spectrometry
Sci. Total Environ. **929** , art. 172239 [10.1016/j.scitotenv.2024.172239](https://doi.org/10.1016/j.scitotenv.2024.172239)
33. **Aslam, S., Arslan, M., Nowak, K.M.** (2024):
Microbial activity, community composition and degraders in the glyphosate-spiked soil are driven by glycine formation
Sci. Total Environ. **907** , art. 168206 [10.1016/j.scitotenv.2023.168206](https://doi.org/10.1016/j.scitotenv.2023.168206)
34. **Aslam, S., Nowak, K.M.** (2024):
Nitrogen-fertilizer addition to an agricultural soil enhances biogenic non-extractable residue formation from 2-¹³C, ¹⁵N-glyphosate
Sci. Total Environ. **918** , art. 170643 [10.1016/j.scitotenv.2024.170643](https://doi.org/10.1016/j.scitotenv.2024.170643)

35. Asmaryan, S., Khlghatyan, A., Hovsepyan, A., Muradyan, V., Avetisyan, R., Gevorgyan, G., Hayrapetyan, A., **Eissa, M.M.A.A.**, Bernert, H., **Schultze, M., Rinke, K.** (2024):
Satellite-based detection of algal blooms in large alpine Lake Sevan: Can satellite data overcome the unavoidable limitations in field observations?
Remote Sens. **16** (19), art. 3734 [10.3390/rs16193734](https://doi.org/10.3390/rs16193734)
36. Auer, A., Gauch, M., Kratzert, F., Nearing, G., Hochreiter, S., **Klotz, D.** (2024):
A data-centric perspective on the information needed for hydrological uncertainty predictions
Hydrol. Earth Syst. Sci. **28** (17), 4099 - 4126 [10.5194/hess-28-4099-2024](https://doi.org/10.5194/hess-28-4099-2024)
37. **Avila Santos, A.P.**, de Almeida, B.L.S., Bonidia, R.P., Stadler, P.F., Stefanic, P., Mandic-Mulec, I., **Nunes da Rocha, U.**, Sanches, D.S., de Carvalho, A.C.P.L.F. (2024):
BioDeepfuse: a hybrid deep learning approach with integrated feature extraction techniques for enhanced non-coding RNA classification
RNA Biol. **21** (1), 1 - 12 [10.1080/15476286.2024.2329451](https://doi.org/10.1080/15476286.2024.2329451)
38. **Azarian, M.**, Ramezani Farani, M., Cho, W.C., Asgharzadeh, F., Yang, Y., Moradi Binabaj, M., Tambuwala, M.M., Farahani, N., Hushmandi, K., Huh, Y.S. (2024):
Advancements in colorectal cancer treatment: The role of metal-based and inorganic nanoparticles in modern therapeutic approaches
Pathol. Res. Pract. **264**, art. 155706 [10.1016/j.prp.2024.155706](https://doi.org/10.1016/j.prp.2024.155706)
39. **Baaken, M.C.**, Vollan, B. (2024):
Identifying behavior change interventions with deep leverage: a conceptual and qualitative case study with farmers from Germany
Sustain. Sci. **19**, 2171 - 2186 [10.1007/s11625-024-01540-3](https://doi.org/10.1007/s11625-024-01540-3)
40. Babin, A., Schurr, F., Delannoy, S., Fach, P., Nguyet, M.H.T.N., Bougeard, S., de Miranda, J.R., Rundlöf, M., Wintermantel, D., Albrecht, M., Attridge, E., Bottero, I., Cini, E., Costa, C., De la Rúa, P., di Prisco, G., **Dominik, C.**, Dzul, D., Hodge, S., Klein, A.-M., Knapp, J., Knauer, A.C., Mänd, M., Martínez-López, V., Medrzycki, P., Pereira-Peixoto, M.H., Potts, S.G., Raimets, R., **Schweiger, O.**, Senapathi, D., Serrano, J., Stout, J.C., Tamburini, G., Brown, M.J.F., Laurent, M., Rivière, M.-P., Chauzat, M.-P., Dubois, E. (2024):
Distribution of infectious and parasitic agents among three sentinel bee species across European agricultural landscapes
Sci. Rep. **14**, art. 3524 [10.1038/s41598-024-53357-w](https://doi.org/10.1038/s41598-024-53357-w)

41. Bade, R., **Huchthausen, J., Huber, C.**, Dewapriya, P., Tschärke, B.J., Verhagen, R., Puljevic, C., **Escher, B.I.**, O'Brien, J.W. (2024):
Improving wastewater-based epidemiology for new psychoactive substance surveillance by combining a high-throughput *in vitro* metabolism assay and LC–HRMS metabolite identification
Water Res. **253** , art. 121297 [10.1016/j.watres.2024.121297](https://doi.org/10.1016/j.watres.2024.121297)
42. Bae, E., Beil, S., **König, M.**, Stolte, S., **Escher, B.I.**, Markiewicz, M. (2024):
The mode of toxic action of ionic liquids: Narrowing down possibilities using high-throughput, *in vitro* cell-based bioassays
Environ. Int. **193** , art. 109089 [10.1016/j.envint.2024.109089](https://doi.org/10.1016/j.envint.2024.109089)
43. **Balda, M., Georgi, A., Kopinke, F.-D., Mackenzie, K.** (2024):
Generating colloidal Fe/C composites via hydrothermal carbonization – A critical study
Sep. Purif. Technol. **335** , art. 126082 [10.1016/j.seppur.2023.126082](https://doi.org/10.1016/j.seppur.2023.126082)
44. **Balseiro-Romero, M., Wick, L.Y.**, Vila, J., Grifoll, M., Ortega-Calvo, J.J. (2024):
Drivers for efficient bioaugmentation and clean-up of contaminated soil
In: Ortega-Calvo, J.J., Coulon, F. (eds.)
Soil remediation science and technology
Handbook of Environmental Chemistry Series 130
Springer, Berlin, Heidelberg, p. 261 - 291 [10.1007/978-3-662-62310-4_1064](https://doi.org/10.1007/978-3-662-62310-4_1064)
45. Banaei, G., Abass, D., Tavakolpournegari, A., Martín-Pérez, J., Gutiérrez, J., **Peng, G., Reemtsma, T.**, Marcos, R., Hernández, A., García-Rodríguez, A. (2024):
Teabag-derived micro/nanoplastics (true-to-life MNPLs) as a surrogate for real-life exposure scenarios
Chemosphere **368** , art. 143736 [10.1016/j.chemosphere.2024.143736](https://doi.org/10.1016/j.chemosphere.2024.143736)
46. Banfi, F., **Bevacqua, E.**, Rivoire, P., Oliveira, S.C., Pinto, J.G., Ramos, A.M., De Michele, C. (2024):
Temporal clustering of precipitation for detection of potential landslides
Nat. Hazards Earth Syst. Sci. **24** (8), 2689 - 2704 [10.5194/nhess-24-2689-2024](https://doi.org/10.5194/nhess-24-2689-2024)
47. **Banzhaf, E.**, Bause, I., **Helbig, C., Elze, S.** (2024):
Personal exposure to environmental pressures in different urban residential structures linking fieldwork and RS mapping
IEEE J. Sel. Top. Appl. Earth Observ. Remote Sens. **17** ,
2789 - 2799 [10.1109/JSTARS.2023.3340418](https://doi.org/10.1109/JSTARS.2023.3340418)
48. Barber, T.R., Claes, S., Ribeiro, F., Dillon, A.E., More, S.L., Thornton, S., Unice, K.M., **Weyrauch, S., Reemtsma, T.** (2024):
Abundance and distribution of tire and road wear particles in the Seine river, France
Sci. Total Environ. **913** , art. 169633 [10.1016/j.scitotenv.2023.169633](https://doi.org/10.1016/j.scitotenv.2023.169633)

49. Barquero, M.B., García-Díaz, C., Dobbler, P.T., **Jehmlich, N.**, Moreno, J.L., López-Mondéjar, R., Bastida, F. (2024):
Contrasting fertilization and phenological stages shape microbial-mediated phosphorus cycling in a maize agroecosystem
Sci. Total Environ. **951**, art. 175571 [10.1016/j.scitotenv.2024.175571](https://doi.org/10.1016/j.scitotenv.2024.175571)
50. Bassi, L., Hennecke, J., **Albracht, C.**, Bröcher, M., Solbach, M.D., Schaller, J., Doan, V.C., Wagner, H., Eisenhauer, N., Ebeling, A., Meyer, S.T., van Dam, N.M., Weigelt, A. (2024):
Uncovering the secrets of monoculture yield decline: trade-offs between leaf and root chemical and physical defence traits in a grassland experiment
Oikos **2024** (2), e10061 [10.1111/oik.10061](https://doi.org/10.1111/oik.10061)
51. Batista, A., Senapati, A., Davoodi, M., **Calabrese, J.M.** (2024):
Personnel staffing and scheduling during disease outbreaks: A contact network-based analysis
Comput. Ind. Eng. **193**, art. 110112 [10.1016/j.cie.2024.110112](https://doi.org/10.1016/j.cie.2024.110112)
52. **Bauer, L., Huth, A., Bogdanowski, A., Müller, M., Fischer, R.** (2024):
Edge effects in Amazon forests: Integrating remote sensing and modelling to assess changes in biomass and productivity
Remote Sens. **16** (3), art. 501 [10.3390/rs16030501](https://doi.org/10.3390/rs16030501)
53. **Bei, Q., Reitz, T., Schädler, M.**, Hodgskiss, L.H., Peng, J., **Schnabel, B., Buscot, F.**, Eisenhauer, N., Schleper, C., Heintz-Buschart, A. (2024):
Metabolic potential of *Nitrososphaera*-associated clades
ISME J. **18** (1), wrac086 [10.1093/ismejo/wrac086](https://doi.org/10.1093/ismejo/wrac086)
54. **Beihnsner, J.**, Hausdorf, S., Friedrich, J., Kaskel, S. (2024):
High performance of the metal organic framework CPO-27 for toxic gas capture (NO₂)
Eur. J. Inorg. Chem. **27** (29), e202400253 [10.1002/ejic.202400253](https://doi.org/10.1002/ejic.202400253)
55. Belaid, A., Roméo, B., Rignol, G., Benzaquen, J., Audoin, T., Vouret-Craviari, V., Brest, P., Varraso, R., **von Bergen, M.**, Marquette, C.H., Leroy, S., Mograbi, B., Hofman, P. (2024):
Impact of the lung microbiota on development and progression of lung cancer
Cancers **16** (19), art. 3342 [10.3390/cancers16193342](https://doi.org/10.3390/cancers16193342)
56. Berger, U., Bell, A., Barton, C.M., Chappin, E., **Dreßler, G.**, Filatova, T., Fronville, T., Lee, A., van Loon, E., Lorscheid, I., Meyer, M., **Müller, B.**, Piou, C., Radchuk, V., Roxburgh, N., **Schüler, L.**, Troost, C., Wijermans, N., Williams, T.G., Wimmmler, M.-C., **Grimm, V.** (2024):
Towards reusable building blocks for agent-based modelling and theory development
Environ. Modell. Softw. **175**, art. 106003 [10.1016/j.envsoft.2024.106003](https://doi.org/10.1016/j.envsoft.2024.106003)

57. **Bertelmann, C., Bühler, B.** (2024):
Strategies found not to be suitable for stabilizing high steroid hydroxylation activities of CYP450 BM3-based whole-cell biocatalysts
PLOS One **19** (9), e0309965 [10.1371/journal.pone.0309965](https://doi.org/10.1371/journal.pone.0309965)
58. **Bertelmann, C., Bühler, B.** (2024):
Hin zu effizienter biokatalytischer Oxyfunktionalisierung von Steroiden [Towards efficient biocatalytic oxyfunctionalization of steroids]
Biospektrum **30** (5), 593 - 595 [10.1007/s12268-024-2261-3](https://doi.org/10.1007/s12268-024-2261-3)
59. **Bertelmann, C., Mock, M., Schmid, A., Bühler, B.** (2024):
Efficiency aspects of regioselective testosterone hydroxylation with highly active CYP450-based whole-cell biocatalysts
Microb. Biotechnol. **17** (1), e14378 [10.1111/1751-7915.14378](https://doi.org/10.1111/1751-7915.14378)
60. **Bertoldi, S., Mattos, P.D.M.A.S., de Carvalho, C.C.C.R., Kruse, L., Thies, S., Heipieper, H.J., Eberlein, C.** (2024):
Evaluation of the robustness under alkanol stress and adaptability of members of the new genus *Halopseudomonas*
Microorganisms **12** (11), art. 2116 [10.3390/microorganisms12112116](https://doi.org/10.3390/microorganisms12112116)
61. Betz-Koch, S., Grittner, L., **Krauss, M.**, Listmann, S., Oehlmann, J., Oetken, M. (2024):
The impact of repeated pyrethroid pulses on aquatic communities
Sci. Total Environ. **955**, art. 177177 [10.1016/j.scitotenv.2024.177177](https://doi.org/10.1016/j.scitotenv.2024.177177)
62. **Bevacqua, E., Rakovec, O.**, Schumacher, D.L., **Kumar, R., Thober, S., Samaniego, L., Seneviratne, S.I., Zscheischler, J.** (2024):
Direct and lagged climate change effects intensified the 2022 European drought
Nat. Geosci. **17** (11), 1100 - 1107 [10.1038/s41561-024-01559-2](https://doi.org/10.1038/s41561-024-01559-2)
63. Billing, M., Sakschewski, B., von Bloh, W., **Vogel, J.**, Thonicke, K. (2024):
'How to adapt forests?'—Exploring the role of leaf trait diversity for long-term forest biomass under new climate normals
Glob. Change Biol. **30** (4), e17258 [10.1111/gcb.17258](https://doi.org/10.1111/gcb.17258)
64. **Birnstengel, S., Dietrich, P., Peisker, K., Pohle, M.**, Hornbruch, G., Bauer, S., Hu, L., Günther, T., Hellwig, O., Dahmke, A., **Werban, U.** (2024):
Experimental seismic crosshole setup to investigate the application of rock physical models at the field scale
Geophysics **89** (3), MR183 - MR195 [10.1190/geo2022-0625.1](https://doi.org/10.1190/geo2022-0625.1)

65. Bitzenhofer, N.L., Höfel, C., Thies, S., Weiler, A.J., **Eberlein, C., Heipieper, H.J.**, Batra-Safferling, R., Sundermeyer, P., Heidler, T., Sachse, C., Busche, T., Kalinowski, J., Belthle, T., Drepper, T., Jaeger, K.-E., Loeschcke, A. (2024):
Exploring engineered vesiculation by *Pseudomonas putida* KT2440 for natural product biosynthesis
Microb. Biotechnol. **17** (1), e14312 [10.1111/1751-7915.14312](https://doi.org/10.1111/1751-7915.14312)
66. Blondeel, H., Guillemot, J., Martin-StPaul, N., Druel, A., Bilodeau-Gauthier, S., Bauhus, J., Grossiord, C., Hector, A., Jactel, H., Jensen, J., Messier, C., Muys, B., Serrano-León, H., **Auge, H.**, Barsoum, N., Birhane, E., Bruelheide, H., Cavender-Bares, J., Chu, C., Cumming, J.R., Damtew, A., Eisenhauer, N., Ferlian, O., Fiedler, S., Ganade, G., Godbold, D.L., Gravel, D., Hall, J.S., Hölscher, D., Hulvey, K.B., Koricheva, J., Kreft, H., Lapadat, C., Liang, J., Liu, X., Meredieu, C., Mereu, S., Montgomery, R., Morillas, L., Nock, C., Paquette, A., Parker, J.D., Parker, W.C., Paterno, G.B., Perring, M.P., Ponette, Q., Potvin, C., Reich, P.B., Rentch, J., Rewald, B., Sandén, H., Sinacore, K., Standish, R.J., Stefanski, A., Tobin, P.C., van Breugel, M., Vergara Fagundes, M., Weih, M., Williams, L.J., Zhou, M., Scherer-Lorenzen, M., Verheyen, K., Baeten, L. (2024):
Tree diversity reduces variability in sapling survival under drought
J. Ecol. **112** (5), 1164 - 1180 [10.1111/1365-2745.14294](https://doi.org/10.1111/1365-2745.14294)
67. Blowes, S.A., McGill, B., Brambilla, V., Chow, C.F.Y., **Engel, T.**, Fontrodona-Eslava, A., Martins, I.S., McGlinn, D., Moyes, F., Sagouis, A., Shimadzu, H., van Klink, R., Xu, W.-B., Gotelli, N.J., Magurran, A., Dornelas, M., Chase, J.M. (2024):
Synthesis reveals approximately balanced biotic differentiation and homogenization
Sci. Adv. **10** (8), eadj9395 [10.1126/sciadv.adj9395](https://doi.org/10.1126/sciadv.adj9395)
68. Blümel, L., Siegfried, K., Riedel, F., **Thrän, D.** (2024):
Are strategy developers well equipped when designing sustainable supply chains for a circular bio-economy? Supporting innovations' market uptake in a PESTEL + I environment
32nd European Biomass Conference and Exhibition, 24-27 June, Marseille, France
EUBCE Proceedings
ETA-Florence Renewable Energies, Florence, p. 345
- 346 [10.5071/32ndEUBCE2024-2BV.9.2](https://doi.org/10.5071/32ndEUBCE2024-2BV.9.2)
69. Boadella, J., Butturini, A., Doménech-Pascual, A., Freixinos, Z., **Perujo, N.**, Urmeneta, J., Vidal, A., Romaní, A.M. (2024):
Microbial life in playa-lake sediments: Adapted structure, plastic function to extreme water activity variations
Microb. Ecol. **87** (1), art. 137 [10.1007/s00248-024-02454-4](https://doi.org/10.1007/s00248-024-02454-4)

70. **Boeing, F., Wagener, T., Marx, A., Rakovec, O., Kumar, R., Samaniego, L., Attinger, S.** (2024):
Increasing influence of evapotranspiration on prolonged water storage recovery in Germany
Environ. Res. Lett. **19** (2), art. 024047 [10.1088/1748-9326/ad24ce](https://doi.org/10.1088/1748-9326/ad24ce)
71. **Böhme, A., Simoneit, M., Ulrich, N., Schüürmann, G.** (2024):
Amino reactivity of aromatic aldehydes - Chemoassay analysis of mechanisms underlying their skin sensitization potency
Naunyn-Schmiedeberg's Arch. Pharmacol. **397** (Suppl. 1), S19 - P001 [10.1007/s00210-024-02974-3](https://doi.org/10.1007/s00210-024-02974-3)
72. Bonatti, M., Lana, M., Medina, L., Chevelev, P., Baldivieso, C., Errismann, C., Gleich, P., **Rodriguez, T.**, Eufemia, L., da Silva Rosa, T., Borba, J., Matavel, C., Schlindwein, S., Ison, R., Eisenack, K., Hellin, J., Pacillo, G., Vadez, V., Bossuet, J., Dolinska, A., Sieber, S. (2024):
Global analysis of social learning's archetypes in natural resource management: understanding pathways of co-creation of knowledge
Hum. Soc. Sci. Commun. **11** , art. 1161 [10.1057/s41599-024-03590-5](https://doi.org/10.1057/s41599-024-03590-5)
73. Bönisch, E., **Blagodatskaya, E.**, Dirzo, R., Ferlian, O., Fichtner, A., Huang, Y., Leonard, S.J., Maestre, F.T., von Oheimb, G., Ray, T., Eisenhauer, N. (2024):
Mycorrhizal type and tree diversity affect foliar elemental pools and stoichiometry
New Phytol. **242** (4), 1614 - 1629 [10.1111/nph.19732](https://doi.org/10.1111/nph.19732)
74. **Bonn, A., von Gönner, J., Liess, M., Gröning, J.** (2024):
Citizen Science-Projekt FLOW: Kleine Bäche in Deutschland sind in einem schlechten ökologischen Zustand [Citizen Science project FLOW: Small streams in Germany are in poor ecological condition]
GWF Wasser, Abwasser **165** (5), 61 - 62
75. Boos, J.-P., **Dichgans, F., Fleckenstein, J.H.**, Gilfedder, B.S., Frei, S. (2024):
Assessing the behavior of microplastics in fluvial systems: Infiltration and retention dynamics in streambed sediments
Water Resour. Res. **60** (2), e2023WR035532 [10.1029/2023WR035532](https://doi.org/10.1029/2023WR035532)
76. **Borchers, M., Förster, J., Thrän, D., Beck, S., Thoni, T., Korte, K., Gawel, E., Markus, T., Schaller, R.**, Rhoden, I., Chi, Y., Dahmen, N., Dittmeyer, R., Dolch, T., Dold, C., Herbst, M., Heß, D., Kalhori, A., Koop-Jakobsen, K., Li, Z., Oschlies, A., Reusch, T.B.H., Sachs, T., Schmidt-Hattenberger, C., Stevenson, A., Wu, J., Yeates, C., Mengis, N. (2024):
A comprehensive assessment of carbon dioxide removal options for Germany
Earth Future **12** (5), e2023EF003986 [10.1029/2023ef003986](https://doi.org/10.1029/2023ef003986)

77. **Borriero, A., Musolff, A., Kumar, R., Fleckenstein, J.H., Lutz, S.R., Nguyen, V.T.** (2024):
The value of instream stable water isotope and nitrate concentration data for calibrating a travel time-based water quality model
Hydrol. Process. **38** (5), e15154 [10.1002/hyp.15154](https://doi.org/10.1002/hyp.15154)
78. **Borriero, A., Nguyen, V.T., Lutz, S.R., Fleckenstein, J.H., Musolff, A., Kumar, R.** (2024):
Can the young water fraction reduce predictive uncertainty in water transit time estimations?
J. Hydrol. **645, Part B**, art. 132238 [10.1016/j.jhydrol.2024.132238](https://doi.org/10.1016/j.jhydrol.2024.132238)
79. Boumaiza, L., Stotler, R.L., Mayer, B., Matiatos, I., Sacchi, E., Otero, N., Johannesson, K.H., Huneau, F., Chesnaux, R., Blarasin, M., Re, V., **Knöller, K.** (2024):
How the $\delta^{18}\text{O}_{\text{NO}_3}$ versus $\delta^{15}\text{N}_{\text{NO}_3}$ plot can be used to identify a typical expected isotopic range of denitrification for NO_3 -impacted groundwaters
ACS ES&T Wat. **4** (12), 5243 - 5254 [10.1021/acsestwater.4c00796](https://doi.org/10.1021/acsestwater.4c00796)
80. Boussouga, Y.-A., Joseph, J., **Stryhanyuk, H., Richnow, H.H., Schäfer, A.I.** (2024):
Adsorption of uranium (VI) complexes with polymer-based spherical activated carbon
Water Res. **249**, art. 120825 [10.1016/j.watres.2023.120825](https://doi.org/10.1016/j.watres.2023.120825)
81. Bouwman, A.F., **Bärlund, I.**, Beusen, A.H.W., Flörke, M., Gramberger, M., Rivera Cardona, J., Podgorski, J., van den Roovaart, J., Grizzetti, B., Janssen, A.B.G., **Kumar, R.**, Langan, S., Poikane, S., Spears, B.M., Stokal, M., Tang, T., Troost, T.A., Vigiak, O., van Vliet, M.T.H., Vystavna, Y., Wang, M., Hofstra, N. (2024):
Multimodel and multiconstituent scenario construction for future water quality
Environ. Sci. Technol. Lett. **11** (12), 1272 - 1280 [10.1021/acs.estlett.4c00789](https://doi.org/10.1021/acs.estlett.4c00789)
82. Braeuning, A., Balaguer, P., Bourguet, W., Carreras-Puigvert, J., Feiertag, K., Kamstra, J.H., Knapen, D., Lichtenstein, D., Marx-Stoelting, P., Rietdijk, J., **Schubert, K.**, Spjuth, O., Stinckens, E., Thedieck, K., van den Boom, R., Vergauwen, L., **von Bergen, M.**, Wewer, N., Zalko, D. (2024):
Corrigendum: Development of new approach methods for the identification and characterization of endocrine metabolic disruptors—a PARC project
Front. Toxicol. **6**, art. 1394396 [10.3389/ftox.2024.1394396](https://doi.org/10.3389/ftox.2024.1394396)
83. **Brandenburg, F., Röhring, K., Hunger, S., Kuchenbuch, A., Harnisch, F.** (2024):
Elektrobioreaktoren für alle! – Technische Anforderungen und Innovationen
[Electrobioreactors for everyone! - Technical requirements and innovations]
Biospektrum **30** (1), 120 - 122 [10.1007/s12268-024-2094-0](https://doi.org/10.1007/s12268-024-2094-0)

84. Brander, S.M., Senathirajah, K., Fernandez, M.O., Weis, J.S., Kumar, E., **Jahnke, A.**, Hartmann, N.B., Alava, J.J., Farrelly, T., Carney Almroth, B., Groh, K.J., Syberg, K., Buerkert, J.S., Abeynayaka, A., Booth, A.M., Cousin, X., Herzke, D., Monclús, L., Morales-Caselles, C., Bonisoli-Alquati, A., Al-juibachi, R., Wagner, M. (2024): The time for ambitious action is now: Science-based recommendations for plastic chemicals to inform an effective global plastic treaty
Sci. Total Environ. **949**, art. 174881 [10.1016/j.scitotenv.2024.174881](https://doi.org/10.1016/j.scitotenv.2024.174881)
85. **Braun, G., Herberth, G., Krauss, M., König, M., Wojtysiak, N., Zenclussen, A.C., Escher, B.I.** (2024): Neurotoxic mixture effects of chemicals extracted from blood of pregnant women
Science **386** (6719), 301 - 309 [10.1126/science.adq0336](https://doi.org/10.1126/science.adq0336)
86. **Braun, G., Krauss, M., Spahr, S., Escher, B.I.** (2024): Handling of problematic ion chromatograms with the Automated Target Screening (ATS) workflow for unsupervised analysis of high-resolution mass spectrometry data
Anal. Bioanal. Chem. **416** (12), 2983 - 2993 [10.1007/s00216-024-05245-5](https://doi.org/10.1007/s00216-024-05245-5)
87. **Breulmann, M., Müller, R., van Afferden, M.** (2024): Modeling urban stormwater and irrigation management with coupled blue-green infrastructure in the context of climate change
Blue-Green Syst. **6** (1), 100 - 113 [10.2166/bgs.2024.101](https://doi.org/10.2166/bgs.2024.101)
88. Brill, F., Lima Alencar, P.H., Zhang, H., **Boeing, F.**, Hüttel, S., Lakes, T. (2024): Exploring drought hazard, vulnerability, and related impacts on agriculture in Brandenburg
Nat. Hazards Earth Syst. Sci. **24** (12), 4237 - 4265 [10.5194/nhess-24-4237-2024](https://doi.org/10.5194/nhess-24-4237-2024)
89. **Brizuela-Torres, D.**, Elith, J., Guillera-Aroita, G., Briscoe, N.J. (2024): Dealing with sampling bias and inferring absence data to improve distribution models of a widely distributed vulnerable marsupial
Austral Ecol. **49** (1), e13474 [10.1111/aec.13474](https://doi.org/10.1111/aec.13474)
90. **Brock, J.**, Guelbenzu-Gonzalo, M., **Lange, M.**, Tratalos, J.A., Barrett, D., Lane, L., More, S.J., Graham, D.A., **Thulke, H.-H.** (2024): Evaluating the effectiveness & costs of strategies post-eradication to monitor for freedom from BVDV infection in Ireland
Agric. Syst. **221**, art. 104127 [10.1016/j.agsy.2024.104127](https://doi.org/10.1016/j.agsy.2024.104127)
91. **Buchwald, J., Kolditz, O.**, Nagel, T. (2024): Design-of-Experiment (DoE) based history matching for probabilistic integrity analysis—A case study of the FE-experiment at Mont Terri
Reliab. Eng. Syst. Saf. **244**, art. 109903 [10.1016/j.res.2023.109903](https://doi.org/10.1016/j.res.2023.109903)

92. **Burian, A.**, Kremen, C., Wu, J.S.-T., **Beckmann, M.**, Bulling, M., Garibaldi, L.A., Krisztin, T., Mehrabi, Z., Ramankutty, N., **Seppelt, R.** (2024): Biodiversity-production feedback effects lead to intensification traps in agricultural landscapes
Nat. Ecol. Evol. **8** (4), 752 - 760 [10.1038/s41559-024-02349-0](https://doi.org/10.1038/s41559-024-02349-0)
93. **Burian, A.**, Ramankutty, N. (2024): Avoiding lose-lose situations in agricultural landscapes
Nat. Ecol. Evol. **8** (4), 610 - 611 [10.1038/s41559-024-02360-5](https://doi.org/10.1038/s41559-024-02360-5)
94. Burr, D.J., Drauschke, J., Kanevche, K., **Kümmel, S.**, **Stryhanyuk, H.**, Heberle, J., Perfumo, A., Elsaesser, A. (2024): Stable isotope probing-nanoFTIR for quantitation of cellular metabolism and observation of growth-dependent spectral features
Small **20** (36), art. 2400289 [10.1002/smll.202400289](https://doi.org/10.1002/smll.202400289)
95. Bussmann, I., Achterberg, E.P., Brix, H., Brüggemann, N., Flöser, G., **Schütze, C.**, Fischer, P. (2024): Influence of wind strength and direction on diffusive methane fluxes and atmospheric methane concentrations above the North Sea
Biogeosciences **21** (16), 3819 - 3838 [10.5194/bg-21-3819-2024](https://doi.org/10.5194/bg-21-3819-2024)
96. Cabezas, A., Cercado, B., Chouchane, H., Corton, E., Gomaa, O., **Harnisch, F.**, Limson, J., Reginatto Spiller, V., Vargas, I. (2024): Microbial electrochemistry and technology capacity building challenges—focus on Latin America & Caribbean and Africa
J. Solid State Electrochem. **28** (3-4), 1023 - 1039 [10.1007/s10008-023-05761-x](https://doi.org/10.1007/s10008-023-05761-x)
97. **Calabrese, J.M.**, **Schüler, L.**, Fu, X., **Gawel, E.**, **Zozmann, H.**, **Bumberger, J.**, Quaas, M., Wolf, G., **Attinger, S.** (2024): A novel, scenario-based approach to comparing non-pharmaceutical intervention strategies across nations
J. R. Soc. Interface **21** (218), art. 20240301 [10.1098/rsif.2024.0301](https://doi.org/10.1098/rsif.2024.0301)
98. **Calderón, A.P.**, Landaverde-Gonzalez, P., Wultsch, C., Foster, R., Harmsen, B., Figueroa, O., Garcia-Anleu, R., Castañeda, F., Amato, G., **Grimm, V.**, Kramer-Schadt, S., Zeller, K.A. (2024): Modelling jaguar gene flow in fragmented landscapes offers insights into functional population connectivity
Landsc. Ecol. **39**, art. 12 [10.1007/s10980-024-01795-2](https://doi.org/10.1007/s10980-024-01795-2)

99. **Canzler, S., Schubert, K., Rolle-Kampczyk, U.E., Wang, Z., Schreiber, S., Pozhidaeva, M., Seitz, H., Kamp, H., Huisinga, M., von Bergen, M., Buesen, R., Hackermüller, J.** (2024):
Enhancing toxicological insights through multi-omics: a case study on direct and indirect thyroid toxicity
Toxicol. Lett. **399** (Suppl. 2), S61 - S62 [10.1016/j.toxlet.2024.07.171](https://doi.org/10.1016/j.toxlet.2024.07.171)
100. Carreira, C., Lønborg, C., Acharya, B., Aryal, L., Buivydaite, Z., **Borim Corrêa, F.**, Chen, T., Lorenzen Elberg, C., Emerson, J.B., Hillary, L., Khadka, R.B., Langlois, V., Mason-Jones, K., Netherway, T., Sutela, S., Trubl, G., wa Kang'eri, A., Wang, R., White III, R.A., Winding, A., Zhao, T., Sapkota, R. (2024):
Integrating viruses into soil food web biogeochemistry
Nat. Microbiol. **9** (8), 1918 - 1928 [10.1038/s41564-024-01767-x](https://doi.org/10.1038/s41564-024-01767-x)
101. **Castañeda-Monsalve, V., Fröhlich, L.-F., Haange, S.-B., Homsí, M.N., Rolle-Kampczyk, U., Fu, Q., von Bergen, M., Jehmlich, N.** (2024):
High-throughput screening of the effects of 90 xenobiotics on the simplified human gut microbiota model (SIHUMIx): A metaproteomic and metabolomic study
Front. Microbiol. **15**, art. 1349367 [10.3389/fmicb.2024.1349367](https://doi.org/10.3389/fmicb.2024.1349367)
102. Castro Sánchez-Bermejo, P., Monjau, T., **Goldmann, K.**, Ferlian, O., Eisenhauer, N., Bruehlheide, H., Ma, Z., Haider, S. (2024):
Tree and mycorrhizal fungal diversity drive intraspecific and intraindividual trait variation in temperate forests: Evidence from a tree diversity experiment
Funct. Ecol. **38** (5), 1089 - 1103 [10.1111/1365-2435.14549](https://doi.org/10.1111/1365-2435.14549)
103. Ceballos-Escalera, A., Pous, N., **Korth, B., Harnisch, F.**, Balaguer, M.D., Puig, S. (2024):
Ex-situ electrochemical characterisation of fixed-bed denitrification biocathodes: A promising strategy to improve bioelectrochemical denitrification
Chemosphere **347**, art. 140699 [10.1016/j.chemosphere.2023.140699](https://doi.org/10.1016/j.chemosphere.2023.140699)
104. Cerecetto, V., Leoni, C., **Jurburg, S.D.**, Kampouris, I.D., Smalla, K., Babin, D. (2024):
Pasture-crop rotations modulate the soil and rhizosphere microbiota and preserve soil structure supporting oat cultivation in the Pampa biome
Soil Biol. Biochem. **195**, art. 109451 [10.1016/j.soilbio.2024.109451](https://doi.org/10.1016/j.soilbio.2024.109451)
105. Chabrillat, S., Foerster, S., Segl, K., Beamish, A., Brell, M., Asadzadeh, S., Milewski, R., **Feilhauer, H.**, Betz, M., et al. (2024):
The EnMAP spaceborne imaging spectroscopy mission: Initial scientific results two years after launch
Remote Sens. Environ. **315**, art. 114379 [10.1016/j.rse.2024.114379](https://doi.org/10.1016/j.rse.2024.114379)

106. Chang, J., Xia, S., Shi, Z., Zeng, H., **Zhang, H.**, Deng, L. (2024):
In situ anchoring of bimetal (Cu, Fe) sulfides featured by sulfur vacancy and phosphorus doping within porous carbon nanocubes derived from Prussian blue analogs to activate peroxymonosulfate for the efficient degradation of organic pollutants
Chem. Eng. J. **498** , art. 155252 [10.1016/j.cej.2024.155252](https://doi.org/10.1016/j.cej.2024.155252)
107. Chang, Y., Stinner, W., **Thraen, D.** (2024):
Value creation of straw-based biogas in China
Energy Sustain. Soc. **14** , art. 62 [10.1186/s13705-024-00492-x](https://doi.org/10.1186/s13705-024-00492-x)
108. **Chanthorn, W., Wiegand, T.,** Nathalang, A., **Kanagaraj, R.**, Davies, S., Sun, Z., Tripathi, N.K., Réjou-Méchain, M., Brockelman, W.Y. (2024):
Species assemblages and their drivers differ between trees and lianas in a seasonal-evergreen forest in Thailand
Ecosphere **15** (8), e4942 [10.1002/ecs2.4942](https://doi.org/10.1002/ecs2.4942)
109. **Chávez García Silva, R.**, Reinecke, R., Coptý, N.K., Barry, D.A., Heggy, E., Labat, D., Roggero, P.P., **Borchardt, D., Rode, M.**, Gómez-Hernández, J.J., **Jomaa, S.** (2024):
Multi-decadal groundwater observations reveal surprisingly stable levels in southwestern Europe
Commun. Earth Environ. **5** , art. 387 [10.1038/s43247-024-01554-w](https://doi.org/10.1038/s43247-024-01554-w)
110. Chen, A., Xiong, J., **Wu, S.**, Yang, Y. (2024):
Changes in terrestrial water storage in the Three-North region of China over 2003–2021: Assessing the roles of climate and vegetation restoration
J. Hydrol. **637** , art. 131303 [10.1016/j.jhydrol.2024.131303](https://doi.org/10.1016/j.jhydrol.2024.131303)
111. **Chen, C.**, Binder, M., Oppelt, L., Hu, Y., Engelmann, C., Arab, A., Xu, W., Scheytt, T., Nagel, T. (2024):
Modeling of heat and solute transport in a fracture-matrix mine thermal energy storage system and energy storage performance evaluation
J. Hydrol. **636** , art. 131335 [10.1016/j.jhydrol.2024.131335](https://doi.org/10.1016/j.jhydrol.2024.131335)
112. Chen, H., Luo, A., **Mi, C.**, Lu, Y., Xue, Y., Jin, L., Zhang, H., Yang, J. (2024):
Climate-driven decline in water level causes earlier onset of hypoxia in a subtropical reservoir
Water Res. **267** , art. 122445 [10.1016/j.watres.2024.122445](https://doi.org/10.1016/j.watres.2024.122445)
113. **Chen, M., Jomaa, S., Lausch, A.,** Beudert, B., **Ghaffar, S.**, Jia, W., **Rode, M.** (2024):
Impact of forest dieback on hydrology and nitrogen export using a new dynamic water quality model
Water Resour. Res. **60** (11), e2024WR037341 [10.1029/2024wr037341](https://doi.org/10.1029/2024wr037341)

114. Chen, Q., Wang, S., Seabloom, E.W., Isbell, F., Borer, E.T., Bakker, J.D., Bharath, S., **Roscher, C.**, Peri, P.L., Power, S.A., Donohue, I., Stevens, C., Ebeling, A., Nogueira, C., Caldeira, M.C., MacDougall, A.S., Moore, J.L., Bagchi, S., Jentsch, A., Tedder, M., Kirkman, K., Alberti, J., Hautier, Y. (2024):
Change in functional trait diversity mediates the effects of nutrient addition on grassland stability
J. Ecol. **112** (11), 2598 - 2612 [10.1111/1365-2745.14404](https://doi.org/10.1111/1365-2745.14404)
115. Chen, S.-C., Chen, S., Musat, N., **Kümmel, S.**, **Ji, J.**, Braad Lund, M., Gilbert, A., **Lechtenfeld, O.J.**, **Richnow, H.-H.**, Musat, F. (2024):
Back flux during anaerobic oxidation of butane supports archaea-mediated alkanogenesis
Nat. Commun. **15**, art. 9628 [10.1038/s41467-024-53932-9](https://doi.org/10.1038/s41467-024-53932-9)
116. **Chen, S.-C.**, Musat, F., **Richnow, H.-H.**, Krüger, M. (2024):
Microbial diversity and oil biodegradation potential of northern Barents Sea sediments
J. Environ. Sci. **146**, 283 - 297 [10.1016/j.jes.2023.12.010](https://doi.org/10.1016/j.jes.2023.12.010)
117. Cheng, F., **Escher, B.I.**, Li, H., **König, M.**, Tong, Y., Huang, J., He, L., Wu, X., Lou, X., Wang, D., Wu, F., Pei, Y., Yu, Z., Brooks, B.W., Zeng, E.Y., You, J. (2024):
Deep learning bridged bioactivity, structure, and GC-HRMS-readable evidence to decipher nontarget toxicants in sediments
Environ. Sci. Technol. **58** (35), 15415 - 15427 [10.1021/acs.est.3c10814](https://doi.org/10.1021/acs.est.3c10814)
118. Chepchirchir, R., Mwalimu, R., **Tanui, I.**, Kiprop, A., **Krauss, M.**, **Brack, W.**, Kandie, F. (2024):
Occurrence, removal and risk assessment of chemicals of emerging concern in selected rivers and wastewater treatment plants in western Kenya
Sci. Total Environ. **948**, art. 174982 [10.1016/j.scitotenv.2024.174982](https://doi.org/10.1016/j.scitotenv.2024.174982)
119. **Chiacchio, M.**, Aae, R. (2024):
3000 leagues under the sea: the voyages of vagrant walruses (*Odobenus rosmarus*) in temperate Europe
Polar Biol. **47** (2), 179 - 185 [10.1007/s00300-023-03218-5](https://doi.org/10.1007/s00300-023-03218-5)
120. **Chiacchio, M.**, Rödder, D., **Henle, K.**, **Grimm-Seyfarth, A.** (2024):
Influences of ski-runs, meadow management and climate on the occupancy of reptiles and amphibians in a high-altitude environment of Italy
Ecol. Evol. **14** (5), e11378 [10.1002/ece3.11378](https://doi.org/10.1002/ece3.11378)
121. Chicaiza-Ortiz, C., Peñafiel-Arcos, P., Peñafiel-Arcos, R.J., Ma, W., **Logroño, W.**, Tian, H., Yuan, W. (2024):
Waste-to-Energy technologies for municipal solid waste management: Bibliometric review, life cycle assessment, and energy potential case study
J. Clean Prod. **480**, art. 143993 [10.1016/j.jclepro.2024.143993](https://doi.org/10.1016/j.jclepro.2024.143993)

122. Chiffard, P., Boodoo, K.S., Ditzel, L., Reiss, M., **Fasching, C.** (2024): Icelandic glacial dissolved organic carbon fluxes, composition and variability - relevance for the global glacial carbon budget
Sci. Total Environ. **957**, art. 177366 [10.1016/j.scitotenv.2024.177366](https://doi.org/10.1016/j.scitotenv.2024.177366)
123. Choudhary, P., Monasso, G.S., Karhunen, V., Ronkainen, J., Mancano, G., Howe, C.G., **Röder, S., Zenclussen, A.C., Herberth, G.**, Sebert, S., et al. (2024): Maternal educational attainment in pregnancy and epigenome-wide DNA methylation changes in the offspring from birth until adolescence
Mol. Psychiatr. **29**, 348 - 358 [10.1038/s41380-023-02331-5](https://doi.org/10.1038/s41380-023-02331-5)
124. **Chowdhury, S.**, Ahmed, S., Alam, S., Callaghan, C.T., Das, P., Di Marco, M., Di Minin, E., Jarić, I., Labi, M.M., Rokonuzzaman, M., Roll, U., Sbragaglia, V., Siddika, A., **Bonn, A.** (2024): A protocol for harvesting biodiversity data from Facebook
Conserv. Biol. **38** (4), e14257 [10.1111/cobi.14257](https://doi.org/10.1111/cobi.14257)
125. **Chowdhury, S.**, Fuller, R.A., Ahmed, S., Alam, S., Callaghan, C.T., Das, P., Correia, R.A., Di Marco, M., Di Minin, E., Jarić, I., Labi, M.M., Ladle, R.J., Rokonuzzaman, M., Roll, U., Sbragaglia, V., Siddika, A., **Bonn, A.** (2024): Using social media records to inform conservation planning
Conserv. Biol. **38** (1), e14161 [10.1111/cobi.14161](https://doi.org/10.1111/cobi.14161)
126. Churakov, S.V., Claret, F., Idiart, A., Jacques, D., Govaerts, J., **Kolditz, O.**, Prasianakis, N.I., Samper, J. (2024): Position paper on high fidelity simulations for coupled processes, multi-physics and chemistry in geological disposal of nuclear waste
Environ. Earth Sci. **83** (17), art. 521 [10.1007/s12665-024-11832-7](https://doi.org/10.1007/s12665-024-11832-7)
127. Cioni, L., Nikiforov, V., Benskin, J.P., Coêlho, A.C.M.F., **Dudášová, S.**, Lauria, M.Z., **Lechtenfeld, O.J.**, Plassmann, M.M., **Reemtsma, T.**, Sandanger, T.M., Herzke, D. (2024): Combining advanced analytical methodologies to uncover suspect PFAS and fluorinated pharmaceutical contributions to extractable organic fluorine in human serum (Tromsø Study)
Environ. Sci. Technol. **58** (29), 12943 - 12953 [10.1021/acs.est.4c03758](https://doi.org/10.1021/acs.est.4c03758)

128. Claret, F., Prasianakis, N.I., Baksay, A., Lukin, D., Pepin, G., Ahusborde, E., Amaziane, B., Bátor, G., Becker, D., Bednár, A., Béreš, M., Bérešová, S., Böthi, Z., Brendler, V., Brenner, K., Březina, J., Chave, F., Churakov, S.V., Hokr, M., Horák, D., Jacques, D., Jankovský, F., Kazymyrenko, C., Koudelka, T., Kovács, T., Krejčí, T., Kruis, J., Laloy, E., Landa, J., Ligurský, T., Lipping, T., López-Vázquez, C., Masson, R., Meeussen, J.C.L., **Mollaali, M.**, Mon, A., Montenegro, L., Pisani, B., Poonoosamy, J., Pospiech, S.I., Saâdi, Z., Samper, J., Samper-Pilar, A.-C., Scaringi, G., Sysala, S., **Yoshioka, K.**, Yang, Y., Zuna, M., **Kolditz, O.** (2024):
EURAD state-of-the-art report: development and improvement of numerical methods and tools for modeling coupled processes in the field of nuclear waste disposal
Front. Nucl. Eng. **3**, art. 1437714 [10.3389/fnue.2024.1437714](https://doi.org/10.3389/fnue.2024.1437714)

129. **Clayton, J.**, Lemanski, K., Solbach, M.D., Temperton, V.M., Bonkowski, M. (2024):
Two-way NxP fertilisation experiment on barley (*Hordeum vulgare*) reveals shift from additive to synergistic N-P interactions at critical phosphorus fertilisation level
Front. Plant Sci. **15**, art. 1346729 [10.3389/fpls.2024.1346729](https://doi.org/10.3389/fpls.2024.1346729)

130. Cohen, Y., Johnke, J., Abed-Rabbo, A., Pasternak, Z., **Chatzinotas, A.**, Jurkevitch, E. (2024):
Unbalanced predatory communities and a lack of microbial degraders characterize the microbiota of a highly sewage-polluted Eastern-Mediterranean stream
FEMS Microbiol. Ecol. **100** (6), fiae069 [10.1093/femsec/fiae069](https://doi.org/10.1093/femsec/fiae069)

131. Collenteur, R.A., Haaf, E., Bakker, M., Liesch, T., Wunsch, A., Soonthornrangsang, J., White, J., Martin, N., Hugman, R., de Sousa, E., Vanden Berghe, D., Fan, X., Peterson, T.J., Bikše, J., Di Ciacca, A., Wang, X., Zheng, Y., Nölscher, M., Koch, J., Schneider, R., Benavides Höglund, N., Chidepudi, S.K.R., Henriot, A., Massei, N., Jardani, A., Rudolph, M.G., **Rouhani, A.**, Gómez-Hernández, J.J., **Jomaa, S.**, Pölz, A., Franken, T., Behbooei, M., Lin, J., Meysami, R. (2024):
Data-driven modelling of hydraulic-head time series: results and lessons learned from the 2022 Groundwater Time Series Modelling Challenge
Hydrol. Earth Syst. Sci. **28** (23), 5193 - 5208 [10.5194/hess-28-5193-2024](https://doi.org/10.5194/hess-28-5193-2024)

132. Colls, M., Viza, A., Zufiarre, A., Camacho-Santamans, A., Laini, A., González-Ferreras, A.M., **Ledesma, J.L.J.**, **Perujo, N.**, Romero, F., et al. (2024):
Impacts of diffuse urban stressors on stream benthic communities and ecosystem functioning: A review
Limnetica **43** (1), 89 - 108 [10.23818/limn.43.07](https://doi.org/10.23818/limn.43.07)

133. Colombo, E.H., Martinez-Garcia, R., **Calabrese, J.M.**, López, C., Hernández-García, E. (2024):
Pulsed interactions unify reaction–diffusion and spatial nonlocal models for biological pattern formation
J. Stat. Mech.-Theory Exp. **2024** (3), art. 034001 [10.1088/1742-5468/ad2b57](https://doi.org/10.1088/1742-5468/ad2b57)

134. **Compagnoni, A.**, Childs, D., **Knight, T.M.**, Salguero-Gómez, R. (2024):
Antecedent effect models as an exploratory tool to link climate drivers to herbaceous perennial population dynamics data
Ecol. Evol. **14** (10), e70484 [10.1002/ece3.70484](https://doi.org/10.1002/ece3.70484)

135. **Compagnoni, A.**, Evers, S., **Knight, T.M.** (2024):
Spatial replication can best advance our understanding of population responses to climate
Ecography **2024** (1), e06833 [10.1111/ecog.06833](https://doi.org/10.1111/ecog.06833)

136. Cooke, S.J., Piczak, M.L., Singh, N.J., Åkesson, S., Ford, A.T., **Chowdhury, S.**, Mitchell, G.W., Norris, D.R., Hardesty-Moore, M., McCauley, D., Hammerschlag, N., Tucker, M.A., Horns, J.J., Reisinger, R.R., Kubelka, V., Lennox, R.J. (2024):
Animal migration in the Anthropocene: threats and mitigation options
Biol. Rev. **99** (4), 1242 - 1260 [10.1111/brv.13066](https://doi.org/10.1111/brv.13066)

137. Cortinovis, C., **Haase, D.**, Geneletti, D. (2024):
Denser and greener cities, but how? A combined analysis of population and vegetation dynamics in Berlin
In: Marucci, A., Zullo, F., Fiorini, L., Saganeiti, L (eds.)
Innovation in Urban and Regional Planning. Proceedings of the 11th INPUT Conference - Volume 2
Lecture Notes in Civil Engineering 463
Springer, Cham, p. 219 - 229 [10.1007/978-3-031-54096-7_20](https://doi.org/10.1007/978-3-031-54096-7_20)

138. Crayol, E., Huneau, F., Garel, E., Zuffianò, L.E., Limoni, P.P., Romanazzi, A., Mattei, A., Re, V., **Knoeller, K.**, Polemio, M. (2024):
Investigating pollution input to coastal groundwater-dependent ecosystems in dry Mediterranean agricultural regions
Sci. Total Environ. **954** , art. 176015 [10.1016/j.scitotenv.2024.176015](https://doi.org/10.1016/j.scitotenv.2024.176015)

139. Creutzig, F., Simoes, S.G., **Leipold, S.**, Berrill, P., Azevedo, I., Edelenbosch, O., Fishman, T., Haberl, H., Hertwich, E., Krey, V., Lima, A.T., Makov, T., Mastrucci, A., Milojevic-Dupont, N., Nachtigall, F., Pauliuk, S., Silva, M., Verdolini, E., van Vuuren, D., Wagner, F., Wiedenhofer, D., Wilson, C. (2024):
Demand-side strategies key for mitigating material impacts of energy transitions
Nat. Clim. Chang. **14** (6), 561 - 572 [10.1038/s41558-024-02016-z](https://doi.org/10.1038/s41558-024-02016-z)

140. Cui, J., Ding, J., Liang, X., Wei, Z., Li, S., **Peng, J.**, Poyatos, R., Wang, T., Piao, S. (2024):
Observational constraints and attribution of global plant transpiration changes over the past four decades
Geophys. Res. Lett. **51** (11), e2024GL108302 [10.1029/2024GL108302](https://doi.org/10.1029/2024GL108302)
141. da Rosa Braun, P.H., **Kuchenbuch, A.**, Toselli, B., Rezwan, K., **Harnisch, F.**, Wilhelm, M. (2024):
Influence of the 3D architecture and surface roughness of SiOC anodes on bioelectrochemical system performance: a comparative study of freeze-cast, 3D-printed, and tape-cast materials with uniform composition
Mater. Renew. Sustain. Energy **13** (1), 81 - 96 [10.1007/s40243-023-00253-4](https://doi.org/10.1007/s40243-023-00253-4)
142. **Dahley, C.**, **Böckmann, T.**, **Ebert, A.**, **Goss, K.-U.** (2024):
Predicting the intrinsic membrane permeability of Caco-2/MDCK cells by the solubility-diffusion model
Eur. J. Pharm. Sci. **195** , art. 106720 [10.1016/j.ejps.2024.106720](https://doi.org/10.1016/j.ejps.2024.106720)
143. Dai, J.-Y., Yu, Y., You, L.-X., Zhong, H.-L., Li, Y.-P., Wang, A.-J., Chorover, J., Feng, R.-W., Alwathnani, H.A., **Herzberg, M.**, Rensing, C. (2024):
Integrated induction of silver resistance determinants and production of extracellular polymeric substances in *Cupriavidus metallidurans* BS1 in response to silver ions and silver nanoparticles
Chemosphere **366** , art. 143503 [10.1016/j.chemosphere.2024.143503](https://doi.org/10.1016/j.chemosphere.2024.143503)
144. **Dai, S.**, **Harnisch, F.**, **Chávez Morejón, M.**, **Keller, N.S.**, **Korth, B.**, **Vogt, C.** (2024):
Microbial electricity-driven anaerobic phenol degradation in bioelectrochemical systems
Environ. Sci. Ecotechnol. **17** , art. 100307 [10.1016/j.ese.2023.100307](https://doi.org/10.1016/j.ese.2023.100307)
145. Davoodi, M., **Calabrese, J.M.** (2024):
Test center location problem: A bi-objective model and algorithms
Algorithms **17** (4), art. 135 [10.3390/a17040135](https://doi.org/10.3390/a17040135)
146. de Bell, S., Alejandre, J.C., Menzel, C., Sousa-Silva, R., Straka, T.M., Berzborn, S., Bürck-Gemassmer, M., Dallimer, M., Dayson, C., Fisher, J.C., Haywood, A., Herrmann, A., Immich, G., Keßler, C.S., Köhler, K., Lynch, M., Marx, V., Michalsen, A., Mudu, P., Napierala, H., Nawrath, M., Pfleger, S., Quitmann, C., Reeves, J.P., **Rozario, K.**, Straff, W., Walter, K., Wendelboe-Nelson, C., Marselle, M.R., **Oh, R.R.Y.**, **Bonn, A.** (2024):
Nature-based social prescribing programmes: opportunities, challenges, and facilitators for implementation
Environ. Int. **190** , art. 108801 [10.1016/j.envint.2024.108801](https://doi.org/10.1016/j.envint.2024.108801)

147. **de Brito, M.M., Sodoge, J.,** Fekete, A., Hagenlocher, M., Koks, E., **Kuhlicke, C.,** Messori, G., de Ruiter, M., Schweizer, P.-J., Ward, P.J. (2024):
Uncovering the dynamics of multi-sector impacts of hydrological extremes: A methods overview
Earth Future **12** (1), e2023EF003906 [10.1029/2023ef003906](https://doi.org/10.1029/2023ef003906)
148. de F. Alves, W., de Souza, L.C., **Schweiger, O.,** di Cavalcanti, V.R., **Settele, J.,** **Wiemers, M.,** Schmucki, R., Kuussaari, M., Tzortzakaki, O., Pettersson, L.B., Fontaine, B., van Swaay, C., Stefanescu, C., Maes, D., WallisDeVries, M.F., **Gianuca, A.T.** (2024):
Connectivity and climate influence diversity-stability relationships across spatial scales in European butterfly metacommunities
Glob. Ecol. Biogeogr. **33** (10), e13896 [10.1111/geb.13896](https://doi.org/10.1111/geb.13896)
149. **De Giorgi, F., Roscher, C., Durka, W.** (2024):
Effects of species diversity on trait expression of the clonal herb *Taraxacum officinale* and its relation to genotype diversity and phenotypic plasticity
Ecol. Evol. **14** (5), e11430 [10.1002/ece3.11430](https://doi.org/10.1002/ece3.11430)
150. de Melo Martins, G., **Menger, J.,** de Melo, T.N., Ribas, C.C. (2024):
Impacts of large dams on Amazonian floodplain bird communities
Biotropica **56** (4), e13351 [10.1111/btp.13351](https://doi.org/10.1111/btp.13351)
151. **de Rooij, G.H.** (2024):
Averaging or adding domain conductivities to calculate the unsaturated soil hydraulic conductivity
Vadose Zone J. **23** (4), e20329 [10.1002/vzj2.20329](https://doi.org/10.1002/vzj2.20329)
152. Dechant, B., Kattge, J., Pavlick, R., Schneider, F.D., Sabatini, F.M., Moreno-Martínez, Á., Butler, E.E., van Bodegom, P.M., Vallicrosa, H., Kattenborn, T., Boonman, C.C.F., Madani, N., Wright, I.J., Dong, N., **Feilhauer, H.,** Peñuelas, J., Sardans, J., Aguirre-Gutiérrez, J., Reich, P.B., Leitão, P.J., Cavender-Bares, J., Myers-Smith, I.H., Durán, S.M., Croft, H., Prentice, I.C., **Huth, A.,** Rebel, K., Zaehle, S., Šímová, I., Díaz, S., Reichstein, M., Schiller, C., Bruelheide, H., **Mahecha, M.,** Wirth, C., Malhi, Y., Townsend, P.A. (2024):
Intercomparison of global foliar trait maps reveals fundamental differences and limitations of upscaling approaches
Remote Sens. Environ. **311**, art. 114276 [10.1016/j.rse.2024.114276](https://doi.org/10.1016/j.rse.2024.114276)

153. Delpierre, N., Garnier, S., Treuil-Dussouet, H., Hufkens, K., Lin, J., Beier, C., Bell, M., Berveiller, D., Cuntz, M., Curioni, G., Dahlin, K., Denham, S.O., Desai, A.R., Domec, J.-C., Hart, K.M., Ibrom, A., Joetzer, E., King, J., Klosterhalfen, A., Koebisch, F., Mc Hale, P., Morfin, A., Munger, J.W., Noormets, A., Pilegaard, K., **Pohl, F.**, Rebmann, C., Richardson, A.D., Rothstein, D., Schwartz, M.D., Wilkinson, M., Soudani, K. (2024):
Phenology across scales: an intercontinental analysis of leaf-out dates in temperate deciduous tree communities
Glob. Ecol. Biogeogr. **33** (12), e13910 [10.1111/geb.13910](https://doi.org/10.1111/geb.13910)
154. Demars, B.O.L., Schneider, S.C., Thiemer, K., Dörsch, P., Pulg, U., Stranzl, S., Velle, G., **Pathak, D.** (2024):
Light and temperature controls of aquatic plant photosynthesis downstream of a hydropower plant and the effect of plant removal
Sci. Total Environ. **912**, art. 169201 [10.1016/j.scitotenv.2023.169201](https://doi.org/10.1016/j.scitotenv.2023.169201)
155. Demir, G., Guswa, A.J., Filipzik, J., Metzger, J.C., Römermann, C., **Hildebrandt, A.** (2024):
Root water uptake patterns are controlled by tree species interactions and soil water variability
Hydrol. Earth Syst. Sci. **28** (6), 1441 - 1461 [10.5194/hess-28-1441-2024](https://doi.org/10.5194/hess-28-1441-2024)
156. Demirel, M.C., Koch, J., **Rakovec, O.**, **Kumar, R.**, **Mai, J.**, **Müller, S.**, **Thober, S.**, **Samaniego, L.**, Stisen, S. (2024):
Tradeoffs between temporal and spatial pattern calibration and their impacts on robustness and transferability of hydrologic model parameters to ungauged basins
Water Resour. Res. **60** (1), e2022WR034193 [10.1029/2022WR034193](https://doi.org/10.1029/2022WR034193)
157. **Deobald, D.**, **Hellmold, N.**, **Eberwein, M.**, **Adrian, L.** (2024):
Proton motive force generation in *Dehalococcoides mccartyi* strain CBDB1 through intracellular proton uptake during organohalide respiration
FEBS Open Bio **14** (S2), 199 - 200 [10.1002/2211-5463.13837](https://doi.org/10.1002/2211-5463.13837)
158. Depauw, L., De Lombaerde, E., Dhiedt, E., Blondeel, H., Abdala-Roberts, L., **Auge, H.**, Barsoum, N., Bauhus, J., Chu, C., Damte, A., Eisenhauer, N., Fagundes, M.V., Ganade, G., Gendreau-Berthiaume, B., Godbold, D., Gravel, D., Guillemot, J., Hajek, P., Hector, A., Hérault, B., Jactel, H., Koricheva, J., Kreft, H., Liu, X., Mereu, S., Messier, C., Muys, B., Nock, C.A., Paquette, A., Parker, J.D., Parker, W.C., Paterno, G.B., Perring, M.P., Ponette, Q., Potvin, C., Reich, P.B., Rewald, B., Scherer-Lorenzen, M., Schnabel, F., Sousa-Silva, R., Weih, M., Zemp, D.C., Verheyen, K., Baeten, L. (2024):
Enhancing tree performance through species mixing: review of a quarter-century of TreeDivNet experiments reveals research gaps and practical insights
Curr. For. Rep. **10** (1), 1 - 20 [10.1007/s40725-023-00208-y](https://doi.org/10.1007/s40725-023-00208-y)

159. **Dey, P.,** Malik, A., Singh, D.K., **Haange, S.-B., von Bergen, M., Jehmlich, N.** (2024):
Unveiling fungal strategies: Mycoremediation in multi-metal pesticide environments
using proteomics
Sci. Rep. **14** , art. 23171 [10.1038/s41598-024-74517-y](https://doi.org/10.1038/s41598-024-74517-y)
160. Deylaghian, S., Nikooee, E., Habibagahi, G., **Nagel, T.** (2024):
Inulin biopolymer as a novel material for sustainable soil stabilization
Sci. Rep. **14** , art. 31078 [10.1038/s41598-024-82289-8](https://doi.org/10.1038/s41598-024-82289-8)
161. Díaz-Yáñez, O., Käber, Y., Anders, T., **Bohn, F.,** Braziunas, K.H., Brúna, J., **Fischer, R.,
Fischer, S.M.,** Hetzer, J., Hickler, T., Hochauer, C., Lexer, M.J., Lischke, H., Mairota, P.,
Merganič, J., Merganičová, K., Mette, T., Mina, M., Morin, X., Nieberg, M., Rammer,
W., Reyer, C.P.O., Scheiter, S., Scherrer, D., Bugmann, H. (2024):
Tree regeneration in models of forest dynamics: A key priority for further research
Ecosphere **15** (3), e4807 [10.1002/ecs2.4807](https://doi.org/10.1002/ecs2.4807)
162. Diefenbach, T., Sumetzberger-Hasinger, M., Braunschmid, V., Konegger, H., **Heipieper,
H.J.,** Guebitz, G.M., Lackner, M., Ribitsch, D., Loibner, A.P. (2024):
Laccase-mediated degradation of petroleum hydrocarbons in historically contaminated
soil
Chemosphere **348** , art. 140733 [10.1016/j.chemosphere.2023.140733](https://doi.org/10.1016/j.chemosphere.2023.140733)
163. Dieskau, J., Hensen, I., Eisenhauer, N., Gaberle, I., **Durka, W.,** Lachmuth, S., **Auge, H.**
(2024):
Phylogenetic relationships and plant life stage but not biogeographic history mediate
priority effects of European grassland plants
J. Ecol. **112** (9), 2007 - 2017 [10.1111/1365-2745.14373](https://doi.org/10.1111/1365-2745.14373)
164. **Dietrich, P.,** Ebeling, A., Meyer, S.T., Asato, A.E.B., Bröcher, M., Gleixner, G.,
Huang, Y., **Roscher, C.,** Schmid, B., Vogel, A., Eisenhauer, N. (2024):
Plant diversity and community age stabilize ecosystem multifunctionality
Glob. Change Biol. **30** (3), e17225 [10.1111/gcb.17225](https://doi.org/10.1111/gcb.17225)
165. Digel, L., Mierzwa, M., Bonné, R., Zieger, S., Pavel, I., Ferapontova, E.,
Koren, K., Boesen, T., **Harnisch, F.,** Marshall, I., Nielsen, L.P., Kuhn, A. (2024):
Cable bacteria skeletons as catalytically active electrodes
Angew. Chem.-Int. Edit. **63** (6), e202312647 [10.1002/anie.202312647](https://doi.org/10.1002/anie.202312647)
166. Dittmann, D., **Seelig, A.H.,** Thalmann, M., Wilkes, T., Junghans, V., **Zahn, D.,**
Klitze, S., Peters, A., Haberkamp, J., **Reemtsma, T.,** Ruhl, A.S. (2024):
Potential and risks of water reuse in Brandenburg (Germany) – an interdisciplinary case
study
Water Reuse **14** (1), 1 - 15 [10.2166/wrd.2024.081](https://doi.org/10.2166/wrd.2024.081)

167. Do, H.X., Nguyen, H.T.T., Tran, V.N., Le, M.-H., Nguyen, B.Q., Pham, H.T., Le, T.H., Binh, D.V., Dang, T.D., Tran, H., **Nguyen, V.T.** (2024):
Uncertain benefits of using remotely sensed evapotranspiration for streamflow estimation - insights from a randomized, large-sample experiment
Water Resour. Manag. **38** , 3819 - 3835 [10.1007/s11269-024-03840-w](https://doi.org/10.1007/s11269-024-03840-w)
168. Dong, H., Huang, S., Wang, H., Shi, H., Singh, V.P., She, D., Huang, Q., Leng, G., Gao, L., Wei, X., **Peng, J.** (2024):
Effects of interaction of multiple large-scale atmospheric circulations on precipitation dynamics in China
Sci. Total Environ. **923** , art. 171528 [10.1016/j.scitotenv.2024.171528](https://doi.org/10.1016/j.scitotenv.2024.171528)
169. **Dong, X.**, Li, X., Ye, Y., Su, D., Yang, R., **Lausch, A.** (2024):
Measuring urban thermal environment from accessibility-based perspective: A case study in a populous city
Geogr. Sustain. **5** (3), 329 - 342 [10.1016/j.geosus.2024.02.004](https://doi.org/10.1016/j.geosus.2024.02.004)
170. **Dong, X.**, Yang, R., Ye, Y., Yi, S., **Haase, D.**, **Lausch, A.** (2024):
Planning for green infrastructure by integrating multi-driver: Ranking priority based on accessibility equity
Sust. Cities Soc. **114** , art. 105767 [10.1016/j.scs.2024.105767](https://doi.org/10.1016/j.scs.2024.105767)
171. Dordoni, M., **Tittel, J.**, **Rosenlöcher, Y.**, **Rinke, K.**, Barth, J.A.C. (2024):
Metabolic activity of *Planktothrix rubescens* and its consequences on oxygen dynamics in laboratory experiment: A stable isotope study
J. Phycol. **60** (3), 642 - 653 [10.1111/jpy.13455](https://doi.org/10.1111/jpy.13455)
172. Dornelas, V., de Castro, P., **Calabrese, J.M.**, Fagan, W.F., Martinez-Garcia, R. (2024):
Movement bias in asymmetric landscapes and its impact on population distribution and critical habitat size
Proc. R. Soc. A-Math. Phys. Eng. Sci. **480** (2297), art. 20240185 [10.1098/rspa.2024.0185](https://doi.org/10.1098/rspa.2024.0185)
173. Dotzauer, M., Radtke, K.S., **Jordan, M.**, **Thrän, D.** (2024):
Advanced SQL-Database for bioenergy technologies - A catalogue for bio-resources, conversion technologies, energy carriers, and supply applications
Heliyon **10** (3), e25434 [10.1016/j.heliyon.2024.e25434](https://doi.org/10.1016/j.heliyon.2024.e25434)
174. **Drabesch, S.**, **Lechtenfeld, O.J.**, **Bibaj, E.**, Ninin, J.M.L., Pachecco, J.L., Fendorf, S., Planer-Friedrich, B., Kappler, A., **Muehe, E.M.** (2024):
Climate induced microbiome alterations increase cadmium bioavailability in agricultural soils with pH below 7
Commun. Earth Environ. **5** , art. 637 [10.1038/s43247-024-01794-w](https://doi.org/10.1038/s43247-024-01794-w)

175. **Drechsler, M.** (2024):
Flexibility trade-offs in conservation offsets
Conserv. Biol. **38** (1), e14144 [10.1111/cobi.14144](https://doi.org/10.1111/cobi.14144)
176. **Drechsler, M.** (2024):
A game-theoretic systematics of conservation and management of spatial ecosystem services
Nat. Resour. Model. **37** (4), e12404 [10.1111/nrm.12404](https://doi.org/10.1111/nrm.12404)
177. **Drechsler, M.** (2024):
Should the biodiversity bank be a savings bank or a lending bank?
Ecol. Complex. **60**, art. 101101 [10.1016/j.ecocom.2024.101101](https://doi.org/10.1016/j.ecocom.2024.101101)
178. Droppers, B., **Rakovec, O.**, Avila, L., Azimi, S., Cortés-Torres, N., De León Pérez, D., Imhoff, R., Francés, F., Kollet, S., Rigon, R., Weerts, A., **Samaniego, L.** (2024):
Multi-model hydrological reference dataset over continental Europe and an African basin
Sci. Data **11**, art. 1009 [10.1038/s41597-024-03825-9](https://doi.org/10.1038/s41597-024-03825-9)
179. Du, Y., Liu, X., Hu, M., Liu, X., Peng, W., Liu, C., **Rinke, K.**, **Boehrer, B.**, Wang, Y. (2024):
Resolving spatially complex interactions between hydrodynamics and biogeochemical processing in a large reservoir with metalimnetic oxygen deficits
J. Hydrol. **644**, art. 132060 [10.1016/j.jhydrol.2024.132060](https://doi.org/10.1016/j.jhydrol.2024.132060)
180. **Duan, Y.**, Zhou, S., Ning, J., **Drechsler, M.** (2024):
Introducing wetland offset markets under development-restoration conflicts: The role of public offset credit supply
J. Environ. Manage. **352**, art. 120125 [10.1016/j.jenvman.2024.120125](https://doi.org/10.1016/j.jenvman.2024.120125)
181. Dubiner, S., Aguilar, R., Anderson, R.O., Arenas Moreno, D.M., Avila, L.J., Boada-Viteri, E., Castillo, M., Chapple, D.G., Chukwuka, C.O., Cree, A., Cruz, F.B., Colli, G.R., Das, I., Delaunay, M.-J., Du, W.-G., Dyugmedzhiev, A., Doan, T.M., Escudero, P., Farquhar, J., Gainsbury, A.M., Gray, B.S., **Grimm-Seyfarth, A.**, Hare, K.M., **Henle, K.**, Ibargüengoytia, N., Itescu, Y., Jamison, S., Jimenez-Robles, O., Labra, A., Laspiur, A., Liang, T., Ludgate, J.L., Luiselli, L., Martín, J., Matthews, G., Medina, M., Méndez-de-la-Cruz, F.R., Miles, D.B., Mills, N.E., Miranda-Calle, A.B., Monks, J.M., Morando, M., Moreno Azocar, D.L., Murali, G., Pafilis, P., Pérez-Cembranos, A., Pérez-Mellado, V., Peters, R., Pizzatto, L., Pincheira-Donoso, D., Plummer, M.V., Schwarz, R., Shermeister, B., Shine, R., Theisinger, O., Theisinger, W., Tolley, K.A., Torres-Carvajal, O., Valdecantos, S., Van Damme, R., Vitt, L.J., Wapstra, E., While, G.M., Levin, E., Meiri, S. (2024):
A global analysis of field body temperatures of active squamates in relation to climate and behaviour
Glob. Ecol. Biogeogr. **33** (4), e13808 [10.1111/geb.13808](https://doi.org/10.1111/geb.13808)

182. **Dudášová, S., Wurz, J., Berger, U., Reemtsma, T., Fu, Q., Lechtenfeld, O.J.** (2024):
An automated and high-throughput data processing workflow for PFAS identification in
biota by direct infusion ultra-high resolution mass spectrometry
Anal. Bioanal. Chem. **416** (22), 4833 - 4848 [10.1007/s00216-024-05426-2](https://doi.org/10.1007/s00216-024-05426-2)
183. Dulio, V., Alygizakis, N., Ng, K., Schymanski, E.L., Andres, S., Vorkamp, K.,
Hollender, J., **Finckh, S.**, Aalizadeh, R., Ahrens, L., Bouhoule, E., Čirka, L.,
Derksen, A., Deviller, G., Duffek, A., Esperanza, M., Fischer, S., **Fu, Q.**, Gago-Ferrero,
P., Haglund, P., Junghans, M., Kools, S.A.E., Koschorreck, J., Lopez, B., Lopez de Alda,
M., Mascolo, G., Miège, C., Osté, L., O'Toole, S., Rostkowski, P., Schulze, T., Sims, K.,
Six, L., Slobodnik, J., Staub, P.-F., Stroomberg, G., Thomaidis, N.S., Togola, A., Tomasi,
G., von der Ohe, P.C. (2024):
Beyond target chemicals: updating the NORMAN prioritisation scheme to support the EU
chemicals strategy with semi-quantitative suspect/non-target screening data
Environ. Sci. Eur. **36** , art. 113 [10.1186/s12302-024-00936-3](https://doi.org/10.1186/s12302-024-00936-3)
184. **Duong, H.L., Paufler, S., Harms, H., Maskow, T., Schlosser, D.** (2024):
Biocalorimetry-aided monitoring of fungal pretreatment of lignocellulosic agricultural
residues
Appl. Microbiol. Biotechnol. **108** (1), art. 394 [10.1007/s00253-024-13234-y](https://doi.org/10.1007/s00253-024-13234-y)
185. **Dushkova, D.**, Ignatieva, M., Konstantinova, A., Nilon, C., Müller, N. (2024):
Urban biodiversity and design in time of (post)pandemics: research perspectives from
URBIO international network
Urban Ecosyst. **27** (5), 1767 - 1779 [10.1007/s11252-024-01547-9](https://doi.org/10.1007/s11252-024-01547-9)
186. **Dushkova, D., Ivlieva, O.** (2024):
Empowering communities to act for a change: a review of the community empowerment
programs towards sustainability and resilience
Sustainability **16** (19), art. 8700 [10.3390/su16198700](https://doi.org/10.3390/su16198700)
187. **Dushkova, D., Kuhlicke, C.** (2024):
Making co-creation operational: A RECONNECT seven-steps-pathway and practical guide
for co-creating nature-based solutions
MethodsX **12** , art. 102495 [10.1016/j.mex.2023.102495](https://doi.org/10.1016/j.mex.2023.102495)
188. Dzofou Ngoumelah, D., Bjerkan Heggeset, T.M., Haugen, T., Sulheim, S.,
Wentzel, A., **Harnisch, F.**, Kretzschmar, J. (2024):
Author correction: Effect of model methanogens on the electrochemical
activity, stability, and microbial community structure of *Geobacter* spp. dominated
biofilm anodes
npj Biofilms Microbiomes **10** , art. 41 [10.1038/s41522-024-00513-9](https://doi.org/10.1038/s41522-024-00513-9)

189. Dzofoou Ngoumelah, D., Bjerkan Heggeset, T.M., Haugen, T., Sulheim, S., Wentzel, A., **Harnisch, F.**, Kretzschmar, J. (2024):
Effect of model methanogens on the electrochemical activity, stability, and microbial community structure of *Geobacter* spp. dominated biofilm anodes
npj Biofilms Microbiomes **10** , art. 17 [10.1038/s41522-024-00490-z](https://doi.org/10.1038/s41522-024-00490-z)
190. Eambangyung, S., Schwörer-Kohl, G., **Purahong, W.** (2024):
DNA of Music: Identifying relationships among different versions of the composition Sadhukarn from Thailand, Laos and Cambodia using multivariate statistics
Data **9** (4), art. 50 [10.3390/data9040050](https://doi.org/10.3390/data9040050)
191. **Ebert, A., Dahley, C.** (2024):
Can membrane permeability of zwitterionic compounds be predicted by the solubility diffusion model?
Eur. J. Pharm. Sci. **199** , art. 106819 [10.1016/j.ejps.2024.106819](https://doi.org/10.1016/j.ejps.2024.106819)
192. **Ebert, A., Dahley, C., Goss, K.-U.** (2024):
Pitfalls in evaluating permeability experiments with Caco-2/MDCK cell monolayers
Eur. J. Pharm. Sci. **194** , art. 106699 [10.1016/j.ejps.2024.106699](https://doi.org/10.1016/j.ejps.2024.106699)
193. **Eberwein, M., Deobald, D., Adrian, L.** (2024):
Tapping the potential of *Dehalococcoides mccartyi*'s respiratory complex as a 'power plant' to supply production strains with ATP
FEBS Open Bio **14** (S2), 136 - 137 [10.1002/2211-5463.13837](https://doi.org/10.1002/2211-5463.13837)
194. **Eberwein, M., Hellmold, N., Frank, R., Deobald, D., Adrian, L.** (2024):
Reductive dehalogenase of *Dehalococcoides mccartyi* strain CBDB1 reduces cobalt-containing metal complexes enabling anodic respiration
Front. Microbiol. **15** , art. 1457014 [10.3389/fmicb.2024.1457014](https://doi.org/10.3389/fmicb.2024.1457014)
195. Edebali, Ö., Krupčíková, S., **Goellner, A.**, Vrana, B., **Muz, M.**, Melymuk, L. (2024):
Tracking aromatic amines from sources to surface waters
Environ. Sci. Technol. Lett. **11** (5), 397 - 409 [10.1021/acs.estlett.4c00032](https://doi.org/10.1021/acs.estlett.4c00032)
196. Edejer, S.R., **Haase, D.**, Dennis, M., Larsen, A. (2024):
Ten steps towards integrated decision making for ecological restoration in cities: Rewilding the European beaver (*Castor fiber*) in Berlin, Germany
MethodsX **13** , art. 102827 [10.1016/j.mex.2024.102827](https://doi.org/10.1016/j.mex.2024.102827)
197. Ehlert von Ahn, C.M., Dellwig, O., Szymczycha, B., Kotwicki, L., Rooze, J., Endler, R., Escher, P., Schmiedinger, I., Sültenfuß, J., Diakakis, M., **Gehre, M.**, Struck, U., Vogler, S., Böttcher, M.E. (2024):
Submarine groundwater discharge into a semi-enclosed coastal bay of the southern Baltic Sea: A multi-method approach
Oceanologia **66** (1), 111 - 138 [10.1016/j.oceano.2024.01.001](https://doi.org/10.1016/j.oceano.2024.01.001)

198. Eijkemans, M., Mommers, M., Harskamp-van Ginkel, M.W., Vrijkotte, T.G.M., Ludvigsson, J., Faresjö, Å., Bergström, A., **Herberth, G.**, Standl, M., et al. (2024):
Physical activity, sedentary behaviour, and childhood asthma: a European collaborative analysis
BMJ Open Respir. Res. **11** , e001630 [10.1136/bmjresp-2023-001630](https://doi.org/10.1136/bmjresp-2023-001630)
199. Eisenhauer, N., **Frank, K.**, Weigelt, A., **Bartkowski, B.**, Beugnon, R., Liebal, K., Mahecha, M., Quaas, M., Al-Halbouni, D., Bastos, A., **Bohn, F.J., de Brito, M.M.**, Denzler, J., Feilhauer, H., Fischer, R., Fritsche, I., Guimaraes-Steinicke, C., Hänsel, M., Haun, D.B.M., Herrmann, H., **Huth, A.**, Kalesse-Los, H., Koetter, M., Kolleck, N., Krause, M., Kretschmer, M., Leitão, P.J., Masson, T., Mora, K., **Müller, B., Peng, J.**, Pöhlker, M.L., Ratzke, L., Reichstein, M., Richter, S., Rüger, N., Sánchez-Parra, B., Shadaydeh, M., Sippel, S., Tegen, I., **Thrän, D.**, Umlauf, J., Wendisch, M., Wolf, K., Wirth, C., Zacher, H., Zaehle, S., Quaas, J. (2024):
A belowground perspective on the nexus between biodiversity change, climate change, and human well-being
Journal of Sustainable Agriculture and Environment **3** (2), e212108 [10.1002/sae2.12108](https://doi.org/10.1002/sae2.12108)
200. Eisenhauer, N., Mueller, K., Ebeling, A., Gleixner, G., Huang, Y., Madaj, A.-M., **Roscher, C.**, Weigelt, A., Bahn, M., Bonkowski, M., Brose, U., Cesarz, S., **Feilhauer, H.**, **Guimaraes-Steinicke, C.**, Heintz-Buschart, A., Hines, J., Lange, M., Meyer, S.T., Mohanbabu, N., Mommer, L., Neuhauser, S., Oelmann, Y., Rahmanian, S., Sasaki, T., Scheu, S., Schielzeth, H., Schmid, B., Schlöter, M., Schulz, S., Unsicker, S.B., Vogel, C., Weisser, W.W., Isbell, F. (2024):
The multiple-mechanisms hypothesis of biodiversity–stability relationships
Basic Appl. Ecol. **79** , 153 - 166 [10.1016/j.baae.2024.07.004](https://doi.org/10.1016/j.baae.2024.07.004)
201. Ekanayake-Weber, M., Mathew, N., Cunha, D., Payen, N., **Grimm, V.**, Koenig, A. (2024):
It's about time: Feeding competition costs of sociality are affected more by temporal characteristics than spatial distribution
Ecol. Evol. **14** (4), e11209 [10.1002/ece3.11209](https://doi.org/10.1002/ece3.11209)
202. **El-Gabbas, A.**, Thomisch, K., Van Opzeeland, I., Burkhardt, E., Boebel, O. (2024):
Dynamic species distribution models of Antarctic blue whales in the Weddell Sea using visual sighting and passive acoustic monitoring data
Divers. Distrib. **30** (1), 87 - 105 [10.1111/ddi.13790](https://doi.org/10.1111/ddi.13790)
203. Ellssel, P., Küstner, G., Kaczorowska-Dolowy, M., Vázquez, E., Di Bene, C., Li, H., **Brizuela-Torres, D.**, Elangovan Vennila, E., Vicente-Vicente, J.L., Avila-Ortega, D.I. (2024):
Building a solid foundation: advancing evidence synthesis in agri-food systems science
Front. Sustain. Food Syst. **8** , art. 1410205 [10.3389/fsufs.2024.1410205](https://doi.org/10.3389/fsufs.2024.1410205)

204. Endress, M.-G., Chen, R., **Blagodatskaya, E.**, Blagodatsky, S. (2024):
The coupling of carbon and energy fluxes reveals anaerobiosis in an
aerobic soil incubation with a *Bacillota*-dominated community
Soil Biol. Biochem. **195**, art. 109478 [10.1016/j.soilbio.2024.109478](https://doi.org/10.1016/j.soilbio.2024.109478)
205. Endress, M.-G., **Dehghani, F.**, Blagodatsky, S., **Reitz, T.**, **Schlüter, S.**, **Blagodatskaya, E.** (2024):
Spatial substrate heterogeneity limits microbial growth as revealed by the joint
experimental quantification and modeling of carbon and heat fluxes
Soil Biol. Biochem. **197**, art. 109509 [10.1016/j.soilbio.2024.109509](https://doi.org/10.1016/j.soilbio.2024.109509)
206. **Equihua, J.**, **Beckmann, M.**, **Seppelt, R.** (2024):
Connectivity conservation planning through deep reinforcement learning
Methods Ecol. Evol. **15** (4), 779 - 790 [10.1111/2041-210x.14300](https://doi.org/10.1111/2041-210x.14300)
207. Erzfeld, L., **Feilhauer, H.**, **Scholz, M.**, **Hartmann, T.** (2024):
Patterns of plant species composition of a temperate floodplain meadow in response to
fine-scale topography
Erdkunde **78** (4), 303 - 319 [10.3112/erdkunde.2024.04.04](https://doi.org/10.3112/erdkunde.2024.04.04)
208. **Escher, B.**, Antignac, J.-P., Audebert, M., Cenjin, P., Hamers, T., Valente,
M.J.P.C., Khoury, L., **König, M.**, Lamoree, M., **Lee, J.**, Ma, Y., Margalef Jornet, M.,
Motteau, S., Renko, K., Scholze, M., Vinggaard, A.M. (2024):
Whole mixture assessments of water, food and human blood
Toxicol. Lett. **399** (Suppl. 2), S11 - S12 [10.1016/j.toxlet.2024.07.041](https://doi.org/10.1016/j.toxlet.2024.07.041)
209. **Escher, B.I.**, **Ahlheim, J.**, **Böhme, A.**, **Borchardt, D.**, **Brack, W.**, **Braun, G.**,
Colbourne, J.K., **Dann, J.P.**, Gessner, J., **Jahnke, A.**, **König, M.**, **Klüver, N.**, **Krauss,**
M., **Lee, J.**, Li, X., **Lips, S.**, Orsini, L., **Rinke, K.**, **Schmitt-Jansen, M.**, **Scholz, S.**,
Schulze, T., Spahr, S., **Ulrich, N.**, **Weitere, M.**, Varga, E. (2024):
Mixtures of organic micropollutants exacerbated in vitro neurotoxicity of prymnesins and
contributed to aquatic toxicity during a toxic algal bloom
Nat. Water **2** (9), 889 - 898 [10.1038/s44221-024-00297-4](https://doi.org/10.1038/s44221-024-00297-4)
210. **Escher, B.I.**, Blanco, J., Caixach, J., Cserbik, D., Farré, M.J., Flores, C., **König, M.**, **Lee,**
J., **Nyffeler, J.**, Planas, C., Redondo-Hasselerharm, P.E., Rovira, J., Sanchís, J.,
Schuhmacher, M., Villanueva, C.M. (2024):
In vitro bioassays for monitoring drinking water quality of tap water, domestic filtration
and bottled water
J. Expo. Sci. Environ. Epidemiol. **34** (1), 126 - 135 [10.1038/s41370-023-00566-6](https://doi.org/10.1038/s41370-023-00566-6)

211. Essl, F., García-Rodríguez, A., Lenzner, B., Alexander, J.M., Capinha, C., Gaüzère, P., Guisan, A., **Kühn, I.**, Lenoir, J., Richardson, D.M., Rumpf, S.B., Svenning, J.-C., Thuiller, W., Zurell, D., Dullinger, S. (2024):
Potential sources of time lags in calibrating species distribution models
J. Biogeogr. **51** (1), 89 - 102 [10.1111/jbi.14726](https://doi.org/10.1111/jbi.14726)
212. Estupinan-Suarez, L.M., **Mahecha, M.D.**, Brenning, A., **Kraemer, G.**, Poveda, G., Reichstein, M., Sierra, C.A. (2024):
Spatial patterns of vegetation activity related to ENSO in northern South America
J. Geophys. Res.-Biogeosci. **129** (1), e2022JG007344 [10.1029/2022JG007344](https://doi.org/10.1029/2022JG007344)
213. Fagan, W.F., Krishnan, A., Liao, Q., Fleming, C.H., Liao, D., Lamb, C., Patterson, B., Wheeldon, T., Martinez-Garcia, R., Menezes, J.F.S., Noonan, M.J., Gurarie, E., **Calabrese, J.M.** (2024):
Intraspecific encounters can lead to reduced range overlap
Mov. Ecol. **12** , art. 58 [10.1186/s40462-024-00501-w](https://doi.org/10.1186/s40462-024-00501-w)
214. Fan, X., Zhang, Y., Shi, K., **Peng, J.**, Liu, Y., Zhou, Y., Liu, Y., Zhu, Q., Song, C., Wan, R., Zhao, X., Woolway, R.I. (2024):
Surging compound drought–heatwaves underrated in global soils
Proc. Natl. Acad. Sci. U.S.A. **121** (42), e2410294121 [10.1073/pnas.2410294121](https://doi.org/10.1073/pnas.2410294121)
215. **Fang, B.**, **Bevacqua, E.**, **Rakovec, O.**, **Zscheischler, J.** (2024):
An increase in the spatial extent of European floods over the last 70 years
Hydrol. Earth Syst. Sci. **28** (16), 3755 - 3775 [10.5194/hess-28-3755-2024](https://doi.org/10.5194/hess-28-3755-2024)
216. Farag, M.A., Hariri, M.L.M., Ehab, A., **Homsy, M.N.**, Zhao, C., **von Bergen, M.** (2024):
Cocoa seeds and chocolate products interaction with gut microbiota; mining microbial and functional biomarkers from mechanistic studies, clinical trials and 16S rRNA amplicon sequencing
Crit. Rev. Food Sci. Nutr. **64** (10), 3122 - 3138 [10.1080/10408398.2022.2130159](https://doi.org/10.1080/10408398.2022.2130159)
217. **Fasching, C.**, Boodoo, K.S., Yao, H., Rusak, J.A., Xenopoulos, M.A. (2024):
Role of lakes, flood, and low flow events in modifying catchment-scale DOC:TN:TP stoichiometry and export
Water Resour. Res. **60** (3), e2023WR034839 [10.1029/2023WR034839](https://doi.org/10.1029/2023WR034839)
218. **Fatima, E.**, **Kumar, R.**, **Attinger, S.**, **Kaluza, M.**, **Rakovec, O.**, **Rebmann, C.**, Rosolem, R., Oswald, S.E., **Samaniego, L.**, **Zacharias, S.**, **Schrön, M.** (2024):
Improved representation of soil moisture processes through incorporation of cosmic-ray neutron count measurements in a large-scale hydrologic model
Hydrol. Earth Syst. Sci. **28** (24), 5419 - 5441 [10.5194/hess-28-5419-2024](https://doi.org/10.5194/hess-28-5419-2024)

219. Feckler, A., Pietz, S., Gonçalves, S., Gerstle, V., **Risse-Buhl, U.**, Bundschuh, M. (2024):
Detritivore physiology and growth benefit from algal presence during microbial leaf
colonization
Limnol. Oceanogr. **69** (4), 848 - 860 [10.1002/lno.12530](https://doi.org/10.1002/lno.12530)

220. **Felipe-Lucia, M.R., De Frutos, A.,** Crouzat, E., **Grescho, V., Heuschele, J.M.,
Marselle, M.,** Heurich, M., Pöpperl, F., Porst, F., Portela, A.P., Rossi, C.,
Carvalho-Santos, C., Stritih, A., Vaz, A.S., **Bonn, A.** (2024):
Differences in the experience of cultural ecosystem services in mountain protected areas
by clusters of visitors
Ecosyst. Serv. **70** , art. 101663 [10.1016/j.ecoser.2024.101663](https://doi.org/10.1016/j.ecoser.2024.101663)

221. Feng, X., Xu, X., Yao, X., Zhao, Y., Tang, Y., Zhao, Z., Wei, Y., **Mehmood, T.**, Luo,
X.-S. (2024):
Sources, compositions, spatio-temporal distributions, and human health risks of
bioaerosols: A review
Atmos. Res. **305** , art. 107453 [10.1016/j.atmosres.2024.107453](https://doi.org/10.1016/j.atmosres.2024.107453)

222. Ferlian, O., **Goldmann, K.**, Bonkowski, M., Dumack, K., **Wubet, T.**, Eisenhauer, N.
(2024):
Invasive earthworms shift soil microbial community structure in northern North
American forest ecosystems
iScience **27** (2), art. 108889 [10.1016/j.isci.2024.108889](https://doi.org/10.1016/j.isci.2024.108889)

223. Fernandez-Gnecco, G., Gégú, L., Covacevich, C., Consolo, V.F., **Bouffaud, M.-L.,
Buscot, F.,** Smalla, K., Babin, D. (2024):
Alone as effective as together: AMF and *Trichoderma* inoculation boost maize
performance but differentially shape soil and rhizosphere microbiota
Journal of Sustainable Agriculture and Environment **3** (1), e12091 [10.1002/sae2.12091](https://doi.org/10.1002/sae2.12091)

224. Ferrer, J.V., Samprogna Mohor, G., Dewitte, O., Pánek, T., Reyes-Carmona, C.,
Handwerger, A.L., Hürlimann, M., **Köhler, L.**, Teshebaeva, K., Thieken, A.H., Tsou,
C.-Y., Urgilez Vinueza, A., Demurtas, V., Zhang, Y., Zhao, C., Marwan, N., Kurths, J.,
Korup, O. (2024):
Human settlement pressure drives slow-moving landslide exposure
Earth Future **12** (9), e2024EF004830 [10.1029/2024EF004830](https://doi.org/10.1029/2024EF004830)

225. Fiedler, L., **Bernt, M.**, Middendorf, M. (2024):
DeGeCI 1.1: a web platform for gene annotation of mitochondrial genomes
Bioinform. Adv. **4** (1), vbae072 [10.1093/bioadv/vbae072](https://doi.org/10.1093/bioadv/vbae072)

226. **Finckh, S., Carmona, E., Borchardt, D., Büttner, O., Krauss, M., Schulze, T., Yang,
S., Brack, W.** (2024):
Mapping chemical footprints of organic micropollutants in European streams
Environ. Int. **183** , art. 108371 [10.1016/j.envint.2023.108371](https://doi.org/10.1016/j.envint.2023.108371)

227. **Fink, P.** (2024):
Book review: Hildrew, A., and Giller, P. (2023). The Biology and Ecology of Streams and Rivers. Oxford University Press: Oxford. ISBN: 978-0198516101 (Hardcover) 466 p. € 124.50
Limnology and Oceanography Bulletin **33** (2), 90 - 91 [10.1002/lob.10629](https://doi.org/10.1002/lob.10629)
228. **Fischer, F., Ermer, M.R., Howanski, J., Yin, Z., Bauer, M., Wagner, M., Fink, B., Zenclussen, A.C., Schumacher, A.** (2024):
Single and mixture effects of bisphenol A and benzophenone-3 on *in vitro* T helper cell differentiation
Chem.-Biol. Interact. **395**, art. 111011 [10.1016/j.cbi.2024.111011](https://doi.org/10.1016/j.cbi.2024.111011)
229. **Fischer, F., Kretschmer, T., Seifert, P., Howanski, J., Krieger, E., Rödiger, J., Fink, B., Yin, Z., Bauer, M., Zenclussen, M.L., Meyer, N., Schumacher, A., Zenclussen, A.C.** (2024):
Single and combined exposures to bisphenol A and benzophenone-3 during early mouse pregnancy have differential effects on fetal and placental development
Sci. Total Environ. **922**, art. 171386 [10.1016/j.scitotenv.2024.171386](https://doi.org/10.1016/j.scitotenv.2024.171386)
230. **Fischer, F., Kretschmer, T., Seifert, P., Krieger, E., Rödiger, J., Howanski, J., Meyer, N., Zenclussen, M.L., Schumacher, A., Zenclussen, A.C.** (2024):
Combined exposure to bisphenol A and benzophenone-3 during early mouse pregnancy affects fetal development in a sex-dependent manner
Reprod. Sci. **31** (1 Suppl.), 229A - 229A [10.1007/s43032-024-01501-2](https://doi.org/10.1007/s43032-024-01501-2)
231. **Fischer, F., Pierzchalski, A., Riesbeck, S., Aldehoff, A.S., Castañeda-Monsalve, V., Haange, S.-B., von Bergen, M., Rolle-Kampczyk, U.E., Jehmlich, N., Zenclussen, A.C., Herberth, G.** (2024):
An *in vitro* model system for testing chemical effects on microbiome-immune interactions - examples with BPX and PFAS mixtures
Front. Immunol. **15**, art. 1298971 [10.3389/fimmu.2024.1298971](https://doi.org/10.3389/fimmu.2024.1298971)
232. **Fischer, S.M., Wang, X., Huth, A.** (2024):
Distinguishing mature and immature trees allows estimating forest carbon uptake from stand structure
Biogeosciences **21** (14), 3305 - 3319 [10.5194/bg-21-3305-2024](https://doi.org/10.5194/bg-21-3305-2024)
233. **Flinzberger, L., Plieninger, T., Bugalho, M.N., Zinngrebe, Y.** (2024):
Is the 'Protected Designation of Origin' an indicator for sustainable landscape management? Insights from pasture-based animal husbandry in five EU countries
Journal of Land Use Science **19** (1), 59 - 77 [10.1080/1747423X.2024.2326321](https://doi.org/10.1080/1747423X.2024.2326321)

234. Florentino, B.R., Bonidia, R.P., Sanches, N.H., **Nunes da Rocha, U.**, de Carvalho, A.C.P.L.F. (2024):
BioPrediction-RPI: Democratizing the prediction of interaction between non-coding RNA and protein with end-to-end machine learning
Comp. Struct. Biotechnol. J. **23** , 2267 - 2276 [10.1016/j.csbj.2024.05.031](https://doi.org/10.1016/j.csbj.2024.05.031)
235. Forbes, V.E., Accolla, C., **Banitz, T.**, Crouse, K., Galic, N., **Grimm, V.**, Raimondo, S., Schmolke, A., Vaugeois, M. (2024):
Mechanistic population models for ecological risk assessment and decision support: The importance of good conceptual model diagrams
Integr. Environ. Assess. Manag. **20** (5), 1566 - 1574 [10.1002/ieam.4886](https://doi.org/10.1002/ieam.4886)
236. **Foscari, A., Seiwert, B., Zahn, D., Schmidt, M., Reemtsma, T.** (2024):
Leaching of tire particles and simultaneous biodegradation of leachables
Water Res. **253** , art. 121322 [10.1016/j.watres.2024.121322](https://doi.org/10.1016/j.watres.2024.121322)
237. Fraissinet, S., De Benedetto, G.E., Malitesta, C., Holzinger, R., **Materić, D.** (2024):
Microplastics and nanoplastics size distribution in farmed mussel tissues
Commun. Earth Environ. **5** , art. 128 [10.1038/s43247-024-01300-2](https://doi.org/10.1038/s43247-024-01300-2)
238. Franklin Guimaraes, A., Carramaschi de Alagao Querido, L., Rocha, T., de Jesus Rodrigues, D., Viana, P.L., de Godoy Bergallo, H., Fernandes, G.W., **Menger, J.**, Ferrer, J., et al. (2024):
Disentangling the veil line for Brazilian biodiversity: An overview from two long-term research programs reveals huge gaps in ecological data reporting
Sci. Total Environ. **950** , art. 174880 [10.1016/j.scitotenv.2024.174880](https://doi.org/10.1016/j.scitotenv.2024.174880)
239. Fricke, C., **Di Lodovico, E.**, Meyer, M., **Maskow, T.**, Schaumann, G.E. (2024):
Design, calibration and testing of a novel isothermal calorespirometer prototype
Thermochim. Acta **738** , art. 179785 [10.1016/j.tca.2024.179785](https://doi.org/10.1016/j.tca.2024.179785)
240. **Friedrichs-Manthey, M., Bowler, D.E.**, Freyhof, J. (2024):
Freshwater fish in mid and northern German rivers – Long-term trends and associated species traits
Sci. Total Environ. **957** , art. 177759 [10.1016/j.scitotenv.2024.177759](https://doi.org/10.1016/j.scitotenv.2024.177759)
241. **Friedrichs-Manthey, M.**, Langhans, S.D., Borgwardt, F., Hein, T., Kling, H., Stanzel, P., Jähnig, S.C., Domisch, S. (2024):
Three hundred years of past and future changes for native fish species in the upper Danube River Basin—Historical flow alterations versus future climate change
Divers. Distrib. **30** (4), e13808 [10.1111/ddi.13808](https://doi.org/10.1111/ddi.13808)

242. Fröhling, M., Aoki-Suzuki, C., Bakshi, B., **Leipold, S.**, Tong, X., Wang, H.S.-H., Wiedenhofer, D. (2024):
Unpacking the path toward a sustainable circular economy through industrial ecology
J. Ind. Ecol. **28** (6), 1359 - 1361 [10.1111/jiec.13499](https://doi.org/10.1111/jiec.13499)
243. Fronville, T., Blaum, N., Kramer-Schadt, S., **Schlägel, U.**, Radchuk, V. (2024):
Performance of five statistical methods to infer interactions among moving individuals in a predator–prey system
Methods Ecol. Evol. **15** (6), 1097 - 1112 [10.1111/2041-210X.14323](https://doi.org/10.1111/2041-210X.14323)
244. Fuchslueger, L., **Solly, E.F.**, Canarini, A., Brangarí, A.C. (2024):
Overview: Global change effects on terrestrial biogeochemistry at the plant–soil interface
Biogeosciences **21** (17), 3959 - 3964 [10.5194/bg-21-3959-2024](https://doi.org/10.5194/bg-21-3959-2024)
245. Funkner, K., Poehlein, A., **Jehmlich, N.**, Egelkamp, R., Daniel, R., **von Bergen, M.**, Rother, M. (2024):
Proteomic and transcriptomic analysis of selenium utilization in *Methanococcus maripaludis*
mSystems **9** (5), e01338-23 [10.1128/msystems.01338-23](https://doi.org/10.1128/msystems.01338-23)
246. Fusinato, E., **Han, S.**, Kobiyama, M., **de Brito, M.M.** (2024):
Safe development paradox: evidence and methodological insights from a systematic review
Nat. Hazards **120** (15), 13693 - 13714 [10.1007/s11069-024-06774-z](https://doi.org/10.1007/s11069-024-06774-z)
247. **Gai, B.**, **Boehrer, B.**, Sun, J., Li, Y., Lin, B., **Shatwell, T.** (2024):
Vertical water age and water renewal in a large riverine reservoir
J. Hydrol. **631**, art. 130701 [10.1016/j.jhydrol.2024.130701](https://doi.org/10.1016/j.jhydrol.2024.130701)
248. Galea, D., **Herzberg, M.**, Dobritsch, D., Fuszard, M., Nies, D.H. (2024):
Linking the transcriptome to physiology: response of the proteome of *Cupriavidus metallidurans* to changing metal availability
Metallomics **16** (12), mfae058 [10.1093/mtomcs/mfae058](https://doi.org/10.1093/mtomcs/mfae058)
249. Galea, D., **Herzberg, M.**, Nies, D.H. (2024):
The metal-binding GTPases CobW2 and CobW3 are at the crossroads of zinc and cobalt homeostasis in *Cupriavidus metallidurans*
J. Bacteriol. **206** (8), e00226-24 [10.1128/jb.00226-24](https://doi.org/10.1128/jb.00226-24)
250. Galic, N., Forbes, V., **Grimm, V.**, Schmolke, A., Vaugeois, M., Brain, R. (2024):
Ecological risk assessment when species-specific data are scarce: how trait-based approaches and modeling can help
Bioscience **74** (10), 701 - 709 [10.1093/biosci/biae086](https://doi.org/10.1093/biosci/biae086)

251. **Gan Yupanqui, K.R., Zeug, W., Thrän, D., Bezama, A.** (2024):
A regionalized social life cycle assessment of a prospective value chain of second-generation biofuel production
J. Clean Prod. **472** , art. 143370 [10.1016/j.jclepro.2024.143370](https://doi.org/10.1016/j.jclepro.2024.143370)

252. Ganatra, A.A., McOdimba, F., Kaneno, S., **Becker, J.M., Shahid, N.,** Hollert, H., **Liess, M.,** Agola, E.L., Fillinger, L. (2024):
High pesticide tolerance of *S. mansoni*: implications for the risk of schistosomiasis
Environ. Sci. Eur. **36** , art. 50 [10.1186/s12302-024-00856-2](https://doi.org/10.1186/s12302-024-00856-2)

253. Gao, G., **Wang, Z.,** Long, W., Huang, Q., Zhang, J., Zhang, J., Hua, P., Ying, G.-G. (2024):
Suspect and nontarget screening of coexisting emerging contaminants and aromatic halogenated disinfection byproducts in drinking water distribution systems
ACS ES&T Wat. **4** (8), 3380 - 3390 [10.1021/acsestwater.4c00249](https://doi.org/10.1021/acsestwater.4c00249)

254. **Gao, S., Jennings, E., Han, L.,** Koch, B.P., **Herzprung, P., Lechtenfeld, O.J.** (2024):
Detection and exclusion of false-positive molecular formula assignments via mass error distributions in UHR mass spectra of natural organic matter
Anal. Chem. **96** (25), 10210 - 10218 [10.1021/acs.analchem.4c00489](https://doi.org/10.1021/acs.analchem.4c00489)

255. **García-García, A., Peng, J.** (2024):
Generation and evaluation of energy and water fluxes from the HOLAPS framework: Comparison with satellite-based products during extreme hot weather
Remote Sens. Environ. **315** , art. 114451 [10.1016/j.rse.2024.114451](https://doi.org/10.1016/j.rse.2024.114451)

256. García-García, G., Parra-López, C., Siddiqui, M.A., Lin, C.S.K., Maalej, H., Njeh, F., Galve, E., Ghrab, S., Belhassen, S., Hassoun, A., **Rojas-Serrano, F.,** Rodríguez-Pleguezuelo, C.R., Sayadi, S. (2024):
Improving waste management strategies in the food sector: case studies from Spain, Tunisia and Hong Kong
J. Mater. Cycles Waste Manag. **26** (4), 2265 - 2277 [10.1007/s10163-024-01965-z](https://doi.org/10.1007/s10163-024-01965-z)

257. García-Pereira, F., González-Rouco, J.F., Melo-Aguilar, C., Steinert, N.J., García-Bustamante, E., de Vrese, P., Jungclaus, J., Lorenz, S., Hagemann, S., **Cuesta-Valero, F.J., García-García, A.,** Beltrami, H. (2024):
First comprehensive assessment of industrial-era land heat uptake from multiple sources
Earth Syst. Dynam. **15** (3), 547 - 564 [10.5194/esd-15-547-2024](https://doi.org/10.5194/esd-15-547-2024)

258. García-Pereira, F., González-Rouco, J.F., Schmid, T., Melo-Aguilar, C., Vegas-Cañas, C., Steinert, N.J., Roldán-Gómez, P.J., **Cuesta-Valero, F.J.,** **García-García, A.,** Beltrami, H., de Vrese, P. (2024):
Thermodynamic and hydrological drivers of the soil and bedrock thermal regimes in central Spain
Soil **10** (1), 1 - 21 [10.5194/soil-10-1-2024](https://doi.org/10.5194/soil-10-1-2024)

259. Garg, S., Atkinson, J.D., Bae, S., Chen, B., Deng, Y., **Georgi, A.**, Hashisho, Z., Liu, H., Radjenovic, J., Shuai, D., Tong, M. (2024):
A guide for JHM authors focusing on advanced oxidation and reduction processes for environmental applications
J. Hazard. Mater. **476**, art. 135263 [10.1016/j.jhazmat.2024.135263](https://doi.org/10.1016/j.jhazmat.2024.135263)
260. **Gehre, M.** (2024):
Editorial from the new Editor-in-Chief Matthias Gehre
Isot. Environ. Health Stud. **60** (3), 227 - 228 [10.1080/10256016.2024.2357209](https://doi.org/10.1080/10256016.2024.2357209)
261. **Geistlinger, H.**, Golmohammadi, S., **Zulfiqar, B.**, Kuechler, M., Reuter, D., **Schlueter, S.**, Segre, E., Holtzman, R., Amro, M. (2024):
A new phase diagram for fluid invasion patterns as a function of pore-scale heterogeneity, surface roughness, and wettability
Water Resour. Res. **60** (6), e2023WR036036 [10.1029/2023wr036036](https://doi.org/10.1029/2023wr036036)
262. **Geistlinger, H.**, Golmohammadi, S., **Zulfiqar, B.**, **Schlueter, S.**, Segre, E., Holtzman, R. (2024):
The interplay between pore-scale heterogeneity, surface roughness, and wettability controls trapping in two-phase fluid displacement in porous media
Geophys. Res. Lett. **51** (1), e2023GL106197 [10.1029/2023gl106197](https://doi.org/10.1029/2023gl106197)
263. Geng, Y., **Zhou, T.**, Zhang, Z., Cui, B., Sun, J., Zeng, L., Yang, R., Wu, N., Liu, T., Pan, J., Si, B., **Lausch, A.** (2024):
Continental-scale mapping of soil pH with SAR-optical fusion based on long-term earth observation data in google earth engine
Ecol. Indic. **165**, art. 112246 [10.1016/j.ecolind.2024.112246](https://doi.org/10.1016/j.ecolind.2024.112246)
264. **Genz, P.**, Hofmann, A.H., Katayama, V.T., **Reemtsma, T.** (2024):
Multiple barriers for micropollutants in nutrient recovery from centrate - combining membrane bioreactor and electrodialysis
Environ. Sci.-Wat. Res. Technol. **10** (8), 1908 - 1919 [10.1039/D4EW00063C](https://doi.org/10.1039/D4EW00063C)
265. **Ghaffar, S.**, **Zhou, X.**, **Jomaa, S.**, **Yang, X.**, Meon, G., **Rode, M.** (2024):
Toward a data-effective calibration of a fully distributed catchment water quality model
Water Resour. Res. **60** (9), e2023WR036527 [10.1029/2023wr036527](https://doi.org/10.1029/2023wr036527)
266. **Ghosh, D.**, Shi, Y., Zimmermann, I.M., Stürzebecher, T., Holzhauser, K., **von Bergen, M.**, Kaster, A.-K., Spielvogel, S., Dippold, M.A., Müller, J.A., **Jehmlich, N.** (2024):
Cover crop monocultures and mixtures enhance bacterial abundance and functionality in the maize root zone
ISME Commun. **24** (1), ycae132 [10.1093/ismeco/ycae132](https://doi.org/10.1093/ismeco/ycae132)

267. **Giacomelli, M., Sargolini, M., Felipe-Lucia, M.R.** (2024):
Including the perspective of stakeholders in landscape planning through the Ecosystem Services co-production framework: an empirical exploration in Le Marche, Italy
Reg. Envir. Chang. **24** (1), art. 24 [10.1007/s10113-024-02184-w](https://doi.org/10.1007/s10113-024-02184-w)
268. **Gianuca, A.T., Schweiger, O., Bini, L.M., Wiemers, M., Rocha di Cavalcanti, V., Diniz-Filho, J.A., WallisDeVries, M.F., Zimmermann, N.E., Settele, J.** (2024):
Disentangling the influence of phylogeny and traits on climatic risk of European butterflies
Glob. Ecol. Biogeogr. **33** (11), e13907 [10.1111/geb.13907](https://doi.org/10.1111/geb.13907)
269. **Gillerot, L., Rozario, K., De Frenne, P., Oh, R., Ponette, Q., Bonn, A., Chow, W., Godbold, D., Steinparzer, M., Haluza, D., Landuyt, D., Muys, B., Verheyen, K.** (2024):
Forests are chill: The interplay between thermal comfort and mental wellbeing
Landsc. Urban Plan. **242**, art. 104933 [10.1016/j.landurbplan.2023.104933](https://doi.org/10.1016/j.landurbplan.2023.104933)
270. **Gimeno-Sotelo, L., Bevacqua, E., Fernández-Alvarez, J.C., Barriopedro, D., Zscheischler, J., Gimeno, L.** (2024):
Projected changes in extreme daily precipitation linked to changes in precipitable water and vertical velocity in CMIP6 models
Atmos. Res. **304**, art. 107413 [10.1016/j.atmosres.2024.107413](https://doi.org/10.1016/j.atmosres.2024.107413)
271. **Goerdeler, C., Engelmann, B., Aldehoff, A.S., Schaffert, A., Blüher, M., Heiker, J.T., Wabitsch, M., Schubert, K., Rolle-Kampczyk, U., von Bergen, M.** (2024):
Metabolomics in human SGBS cells as new approach method for studying adipogenic effects: Analysis of the effects of DINCH and MINCH on central carbon metabolism
Environ. Res. **252**, art. 118847 [10.1016/j.envres.2024.118847](https://doi.org/10.1016/j.envres.2024.118847)
272. **Goihl, S.** (2024):
Crop yield estimation uncertainties at the regional scale for Saxony, Germany
Agron. J. **116** (6), 3097 - 3107 [10.1002/agj2.21680](https://doi.org/10.1002/agj2.21680)
273. **Golivets, M., Knapp, S., Essl, F., Lenzner, B., Latombe, G., Leung, B., Kühn, I.** (2024):
Future changes in key plant traits across Central Europe vary with biogeographical status, woodiness, and habitat type
Sci. Total Environ. **907**, art. 167954 [10.1016/j.scitotenv.2023.167954](https://doi.org/10.1016/j.scitotenv.2023.167954)
274. **Golparvar, A., Kästner, M., Thullner, M.** (2024):
P3D-BRNS v1.0.0: a three-dimensional, multiphase, multicomponent, pore-scale reactive transport modelling package for simulating biogeochemical processes in subsurface environments
Geosci. Model Dev. **17** (2), 881 - 898 [10.5194/gmd-17-881-2024](https://doi.org/10.5194/gmd-17-881-2024)

275. **Gómez-Olarte, S., Mailänder, V., Castro-Neves, J., Stojanovska, V., Schumacher, A., Meyer, N., Zenclessen, A.C.** (2024):
The ENDOMIX perspective: how everyday chemical mixtures impact human health and reproduction by targeting the immune system
Biol. Reprod. **111** (6), 1170 - 1187 [10.1093/biolre/ioae142](https://doi.org/10.1093/biolre/ioae142)
276. Gonzalez-Gonzalez, S., Zhang, Q., Acuña, J.J., Sadowsky, M.J., **Wick, L.Y.**, Jorquera, M.A. (2024):
Correction: Mycelia migratory bacteria in compost and compost–amended rhizosphere soil in a table grape orchard (vol 24, pg 4666, 2024)
J. Soil Sci. Plant Nutr. **24**, 7833 [10.1007/s42729-024-02078-0](https://doi.org/10.1007/s42729-024-02078-0)
277. Gonzalez-Gonzalez, S., Zhang, Q., Acuña, J.J., Sadowsky, M.J., **Wick, L.Y.**, Jorquera, M.A. (2024):
Mycelia migratory bacteria in compost and compost–amended rhizosphere soil in a table grape orchard
J. Soil Sci. Plant Nutr. **24** (3), 4666 - 4680 [10.1007/s42729-024-01862-2](https://doi.org/10.1007/s42729-024-01862-2)
278. Goyal, S.S., Dave, R., **Kumar, R.**, Bhatia, U. (2024):
Indian interstate trade exacerbates nutrient pollution in food production hubs
Commun. Earth Environ. **5**, art. 9 [10.1038/s43247-023-01178-6](https://doi.org/10.1038/s43247-023-01178-6)
279. Goyal, S.S., **Kumar, R.**, Bhatia, U. (2024):
Assessing temporal dynamics of nitrogen surplus in Indian agriculture: district scale data from 1966 to 2017
Sci. Data **11**, art. 1191 [10.1038/s41597-024-04023-3](https://doi.org/10.1038/s41597-024-04023-3)
280. **Graeber, D.**, McCarthy, M.J., **Shatwell, T.**, **Borchardt, D.**, Jeppesen, E., Søndergaard, M., Lauridsen, T.L., Davidson, T.A. (2024):
Consistent stoichiometric long-term relationships between nutrients and chlorophyll-a across shallow lakes
Nat. Commun. **15**, art. 809 [10.1038/s41467-024-45115-3](https://doi.org/10.1038/s41467-024-45115-3)
281. **Graebler, N.**, **Althaus, M.**, **Şen, Ö.O.**, Reimann, T., Cajuhi, T., Scheuermann, G., **Kolditz, O.**, **Rink, K.** (2024):
“Feels like an Indie Game” – Evaluation of a virtual field trip prototype on radioactive waste management research for university education
IEEE Comput. Graph. Appl. **44** (1), 13 - 24 [10.1109/MCG.2023.3328169](https://doi.org/10.1109/MCG.2023.3328169)
282. **Graebler, N.**, Ziefle, G., Furche, M., Nicol, R., Schefer, S., Ziegler, M., Jaeggi, D., Nussbaum, C., Annanias, Y., **Goldstein, S.**, **Rink, K.** (2024):
VR-EX - An immersive virtual reality serious game for science communication about the electrical resistivity tomography measurements in the Mont Terri Rock Laboratory, Switzerland
Environ. Earth Sci. **83** (10), art. 318 [10.1007/s12665-024-11613-2](https://doi.org/10.1007/s12665-024-11613-2)

283. Grafmüller, J., Möllmer, J., **Muehe, E.M.**, Kammann, C.I., Kray, D., Schmidt, H.-P., Hagemann, N. (2024):
Granulation compared to co-application of biochar plus mineral fertilizer and its impacts on crop growth and nutrient leaching
Sci. Rep. **14** , art. 16555 [10.1038/s41598-024-66992-0](https://doi.org/10.1038/s41598-024-66992-0)

284. **Grasse, N., Massei, R., Seiwert, B., Scholz, S., Escher, B.I., Reemtsma, T., Fu, Q.** (2024):
Impact of biotransformation on internal concentrations and specificity classification of organic chemicals in the zebrafish embryo (*Danio rerio*)
Environ. Sci. Technol. **58** (40), 17898 - 17907 [10.1021/acs.est.4c04156](https://doi.org/10.1021/acs.est.4c04156)

285. Grimm, H., **Drabesch, S.**, Nicol, A., Straub, D., Joshi, P., Zarfl, C., Planer-Friedrich, B., **Muehe, E.M.**, Kappler, A. (2024):
Arsenic immobilization and greenhouse gas emission depend on quantity and frequency of nitrogen fertilization in paddy soil
Heliyon **10** (16), e35706 [10.1016/j.heliyon.2024.e35706](https://doi.org/10.1016/j.heliyon.2024.e35706)

286. **Grimm, V.**, Berger, U., Meyer, M., Lorscheid, I. (2024):
Theory for and from agent-based modelling: Insights from a virtual special issue and a vision
Environ. Modell. Softw. **178** , art. 106088 [10.1016/j.envsoft.2024.106088](https://doi.org/10.1016/j.envsoft.2024.106088)

287. **Groeneveld, J.**, Odemer, R., Requier, F. (2024):
Brood indicators are an early warning signal of honey bee colony loss—a simulation-based study
PLOS One **19** (5), e0302907 [10.1371/journal.pone.0302907](https://doi.org/10.1371/journal.pone.0302907)

288. Grünberger, A., Bahnemann, J., **Dusny, C.** (2024):
Editorial overview: Analytical Biotechnology: It's all about getting smaller
Curr. Opin. Biotechnol. **85** , art. 103029 [10.1016/j.copbio.2023.103029](https://doi.org/10.1016/j.copbio.2023.103029)

289. Grunewald, K., Zieschank, R., **Förster, J., Hansjürgens, B., Wildner, T.M.** (2024):
The future of economic reporting: ecosystem services and biodiversity in government and corporate accounting
One Ecosyst. **9** , e131326 [10.3897/oneeco.9.e131326](https://doi.org/10.3897/oneeco.9.e131326)

290. Grünig, M., Rammer, W., Albrich, K., André, F., Augustynczyk, A.L.D., **Bohn, F.**, Bouwman, M., Bugmann, H., Collalti, A., Cristal, I., Dalmonech, D., De Caceres, M., De Coligny, F., Dobor, L., Dollinger, C., Forrester, D.I., Garcia-Gonzalo, J., González, J.R., Hiltner, U., Hlásny, T., Honkaniemi, J., Huber, N., Jonard, M., Jönsson, A.M., Lagergren, F., Nieberg, M., Mina, M., Mohren, F., Moos, C., Morin, X., Muys, B., Peltoniemi, M., Reyer, C.P.O., Storms, I., Thom, D., Toïgo, M., Seidl, R. (2024):
A harmonized database of European forest simulations under climate change
Data Brief **54** , art. 110384 [10.1016/j.dib.2024.110384](https://doi.org/10.1016/j.dib.2024.110384)

291. Guan, Y., Gu, X., Slater, L.J., **Li, X.**, Li, J., Wang, L., Tang, X., Kong, D., Zhang, X. (2024):
Human-induced intensification of terrestrial water cycle in dry regions of the globe
npj Clim. Atmos. Sci. **7**, art. 45 [10.1038/s41612-024-00590-9](https://doi.org/10.1038/s41612-024-00590-9)
292. Gücker, B., **Brauns, M.**, Santos, A.T.B., de Carvalho, A.P.C., Boëchat, I.G. (2024):
Contrasting effects of agriculture and urban land use on macroinvertebrate secondary production in Neotropical streams
Ecol. Indic. **162**, art. 112039 [10.1016/j.ecolind.2024.112039](https://doi.org/10.1016/j.ecolind.2024.112039)
293. Guerra, C.A., Eisenhauer, N., Tebbe, C.C., Xylander, W.E.R., Albert, C., Babin, D., **Bartkowski, B.**, Burkhard, B., Filser, J., **Haase, D.**, Hohberg, K., Kleemann, J., Kolb, S., Lachmann, C., Rillig, M.C., Römbke, J., Ruess, L., Scheu, S., Scheunemann, N., Steinhoff-Knopp, B., Wellbrock, N., Ristok, C. (2024):
Foundations for a national assessment of soil biodiversity
Journal of Sustainable Agriculture and Environment **3** (3), e12116 [10.1002/sae2.12116](https://doi.org/10.1002/sae2.12116)
294. Guerrero-Brotons, M., **Perujo, N.**, Romaní, A.M., Gómez, R. (2024):
Advantages of using a carbon-rich substrate in a constructed wetland for agricultural water treatment: Carbon availability and biota development
Agric. Ecosyst. Environ. **360**, art. 108792 [10.1016/j.agee.2023.108792](https://doi.org/10.1016/j.agee.2023.108792)
295. Günther, S., Karras, T., Naegeli de Torres, F., Semella, S., **Thrän, D.** (2024):
Temporal and spatial mapping of theoretical biomass potential across the European Union
Earth Syst. Sci. Data **16** (1), 59 - 74 [10.5194/essd-16-59-2024](https://doi.org/10.5194/essd-16-59-2024)
296. **Guo, F., Hertel, D., Schlink, U.**, Hu, D., Qian, J., Wu, W. (2024):
Remote sensing-based attribution of urban heat islands to the drivers of heat
IEEE Trans. Geosci. Remote Sensing **62**, art. 5002312 [10.1109/TGRS.2024.3378287](https://doi.org/10.1109/TGRS.2024.3378287)
297. **Guo, F.**, Hu, D., **Schlink, U.** (2024):
A comprehensive metric scheme for characterizing the heterogeneity of urban thermal landscapes: A case study of 14-year evaluation in Beijing
Ecol. Indic. **166**, art. 112268 [10.1016/j.ecolind.2024.112268](https://doi.org/10.1016/j.ecolind.2024.112268)
298. **Guo, F.**, Sun, J., Hu, D. (2024):
Surface energy balance-based surface urban heat island decomposition at high resolution
Remote Sens. Environ. **315**, art. 114447 [10.1016/j.rse.2024.114447](https://doi.org/10.1016/j.rse.2024.114447)
299. Guo, X., Gao, Y., Zhang, S., Cai, W., Chen, D., Leung, L.R., **Zscheischler, J.**, Thompson, L., Davis, K., Qu, B., Gao, H., Wu, L. (2024):
Intensification of future subsurface marine heatwaves in an eddy-resolving model
Nat. Commun. **15**, art. 10777 [10.1038/s41467-024-54946-z](https://doi.org/10.1038/s41467-024-54946-z)

300. Guo, X., Gao, Y., Zhang, S., Cai, W., Leung, L.R., Lu, J., Chen, X., **Zscheischler, J.**, Thompson, L., Guan, B., Rutz, J., Guo, C., Kou, W., Cheng, W., Gao, H., Wu, L. (2024): More high-impact atmospheric river-induced extreme precipitation events under warming in a high-resolution model
One Earth **7** (12), 2223 - 2234 [10.1016/j.oneear.2024.11.009](https://doi.org/10.1016/j.oneear.2024.11.009)

301. Gupta, V., **Gupta, S.K.**, Shetty, A. (2024): Fractal-based supervised approach for dimensionality reduction of hyperspectral images
Comput. Geosci. **193** , art. 105733 [10.1016/j.cageo.2024.105733](https://doi.org/10.1016/j.cageo.2024.105733)

302. Guse, B., Han, L., **Kumar, R.**, **Rakovec, O.**, Luedtke, S., Herzog, A., **Thober, S.**, **Samaniego, L.**, Wagener, T. (2024): Spatio-temporal consistency and variability in parameter dominance on simulated hydrological fluxes and state variables
Water Resour. Res. **60** (12), e2023WR036822 [10.1029/2023WR036822](https://doi.org/10.1029/2023WR036822)

303. Gutierrez-Riquelme, T., **Karkossa, I.**, **Schubert, K.**, **Liebscher, G.**, Packeiser, E.-M., Nolte, I., **von Bergen, M.**, Murua Escobar, H., Aguilera-Rojas, M., Einspanier, R., Stein, T. (2024): Proteomic analysis of extracellular vesicles derived from canine mammary tumour cell lines identifies protein signatures specific for disease state
BMC Vet. Res. **20** , art. 488 [10.1186/s12917-024-04331-1](https://doi.org/10.1186/s12917-024-04331-1)

304. **Gutsfeld, S.**, Wehmas, L., **Omoyeni, I.E.**, **Schweiger, N.**, **Leuthold, D.**, **Michaelis, P.**, Howey, X.M., Gaballah, S., **Herold, N.**, Vogs, C., Wood, C., Bertotto, L., Wu, G.-M., **Klüver, N.**, **Busch, W.**, **Scholz, S.**, **Schor, J.**, **Tal, T.** (2024): Investigation of peroxisome proliferator-activated receptor genes as requirements for visual startle response hyperactivity in larval zebrafish exposed to structurally similar per- and polyfluoroalkyl substances (PFAS)
Environ. Health Perspect. **132** (7), art. 077007 [10.1289/EHP13667](https://doi.org/10.1289/EHP13667)

305. **Haalck, I.**, Székely, A., Ramne, S., Sonestedt, E., von Brömssen, C., Eriksson, E., Lai, F.Y. (2024): Are we using more sugar substitutes? Wastewater analysis reveals differences and rising trends in artificial sweetener usage in Swedish urban catchments
Environ. Int. **190** , art.108814 [10.1016/j.envint.2024.108814](https://doi.org/10.1016/j.envint.2024.108814)

306. **Haange, S.-B.**, **Riesbeck, S.**, **Aldehoff, A.S.**, **Engelmann, B.**, **Jensen Pedersen, K.**, **Castañeda-Monsalve, V.**, **Rolle-Kampczyk, U.**, **von Bergen, M.**, **Jehmlich, N.** (2024): Chemical mixture effects on the simplified human intestinal microbiota: Assessing xenobiotics at environmentally realistic concentrations
J. Hazard. Mater. **474** , art. 134683 [10.1016/j.jhazmat.2024.134683](https://doi.org/10.1016/j.jhazmat.2024.134683)

307. **Haase, A.** (2024):
Inequalities and injustices of urban green regeneration: Applying the conflict analysis perspective
Land **13** (3), art. 296 [10.3390/land13030296](https://doi.org/10.3390/land13030296)
308. **Haase, A.,** Arroyo, I., Astolfo, G., Franz, Y., Laksevics, K., Lazarenko, V., Nasya, B., Reeger, U., **Schmidt, A.** (2024):
Housing refugees from Ukraine: preliminary insights and learnings from the local response in five European cities
Urban Research & Practice **17** (1), 139 - 145 [10.1080/17535069.2023.2225333](https://doi.org/10.1080/17535069.2023.2225333)
309. **Haase, D., Dushkova, D.** (2024):
Embracing ambivalence as the key to promoting tree diversities as nature-based solutions in European cities
Urban Ecosyst. **27** (5), 1837 - 1846 [10.1007/s11252-024-01555-9](https://doi.org/10.1007/s11252-024-01555-9)
310. Haefner, G., Kastner, I., Deuß, A., Meier, J.-N., Beer, K., Schmidt, K., **Lehmann, P.,** Matthies, E. (2024):
How can energy-relevant investment decisions be boosted? The role of events as initiators and drivers of the decision process
Energy Res. Soc. Sci. **117** , art. 103710 [10.1016/j.erss.2024.103710](https://doi.org/10.1016/j.erss.2024.103710)
311. Haffert, L., Jegen, M., **Siebert, C., Rödiger, T.,** Berndt, C. (2024):
AI-quifer - Using artificial intelligence to determine offshore groundwater occurrences that are key to coastal water management
Proceedings OCEANS 2024, Halifax, 23-26 September 2024
Oceans Conference Record (IEEE)
Institute of Electrical and Electronics Engineers
(IEEE), New York, NY, p. 1 - 5 [10.1109/OCEANS55160.2024.10754080](https://doi.org/10.1109/OCEANS55160.2024.10754080)
312. **Hagen, O.,** Viana, D.S., **Wiegand, T.,** Chase, J.M., Onstein, R.E. (2024):
The macro-eco-evolutionary interplay between dispersal, competition and landscape structure in generating biodiversity
Philos. Trans. R. Soc. B-Biol. Sci. **379** (1907), art. 20230140 [10.1098/rstb.2023.0140](https://doi.org/10.1098/rstb.2023.0140)
313. Halford, G., Bulman, C.R., Bourn, N., Maes, D., **Harpke, A.,** Hodgson, J.A. (2024):
Can species distribution models using remotely sensed variables inform reintroductions? Trialling methods with *Carterocephalus palaemon* the Chequered Skipper Butterfly
J. Insect Conserv. **28** , 909 - 921 [10.1007/s10841-024-00555-6](https://doi.org/10.1007/s10841-024-00555-6)
314. **Han, S., Luo, A.** (2024):
Unravelling stakeholder narratives on nature-based solutions for hydro-meteorological risk reduction
Sustain. Sci. **19** (5), 1677 - 1691 [10.1007/s11625-024-01541-2](https://doi.org/10.1007/s11625-024-01541-2)

315. **Hannemann, M., Garcia-Garcia, A.,** Poyatos, R., **Mahecha, M.D., Peng, J.** (2024):
Estimating transpiration globally by integrating the Priestley-Taylor model with neural networks
Environ. Res. Lett. **19** (11), art. 114089 [10.1088/1748-9326/ad8506](https://doi.org/10.1088/1748-9326/ad8506)
316. **Hansjürgens, B.** (2024):
Neues Klimaschutzgesetz: an die Realität angepasst
Wirtschaftsdienst - Zeitschrift für Wirtschaftspolitik **104** (5), 290 - 291 [10.2478/wd-2024-0077](https://doi.org/10.2478/wd-2024-0077)
317. **Hansjürgens, B.** (2024):
Ökodesign-Verordnung: Die EU-Kommission macht ernst!
Wirtschaftsdienst - Zeitschrift für Wirtschaftspolitik **104** (11), 741 - 742 [10.2478/wd-2024-0188](https://doi.org/10.2478/wd-2024-0188)
318. Hao, L., Chen, J., Wei, Z., Miao, L., Zhao, T., **Peng, J.** (2024):
Validation of satellite soil moisture products by sparsification of ground observations
IEEE J. Sel. Top. Appl. Earth Observ. Remote Sens. **17** , 5970 - 5985 [10.1109/JSTARS.2024.3362833](https://doi.org/10.1109/JSTARS.2024.3362833)
319. Hari, V., **Rakovec, O.**, Zhang, W., Koppa, A., Collins, M., **Kumar, R.** (2024):
On the role of the Atlantic Meridional Mode in eastern European temperature variability
Atmos. Res. **297** , art. 107082 [10.1016/j.atmosres.2023.107082](https://doi.org/10.1016/j.atmosres.2023.107082)
320. Harman, J., Nödl, M.-T., Fenton, B., Hipsley, C.A., Liberles, D.A., Narayan, E., **Settele, J.**, Traulsen, A. (2024):
2024 joint BMC Ecology and Evolution and BMC Zoology image competition: the winning images. Editorial
BMC Ecol. Evol. **24** , art. 102 [10.1186/s12862-024-02291-6](https://doi.org/10.1186/s12862-024-02291-6)
321. **Harnisch, F.**, Deutzmann, J.S., Boto, S.T., Rosenbaum, M.A. (2024):
Microbial electrosynthesis: opportunities for microbial pure cultures
Trends Biotechnol. **42** (8), 1035 - 1047 [10.1016/j.tibtech.2024.02.004](https://doi.org/10.1016/j.tibtech.2024.02.004)
322. **Harnisch, F.**, ter Heijne, A., Paquete, C.M. (2024):
Editorial letter of VSI: European scent of ISMET
Bioelectrochemistry **160** , art. 108772 [10.1016/j.bioelechem.2024.108772](https://doi.org/10.1016/j.bioelechem.2024.108772)
323. Haro, S., Bermejo, R., Healy, M.G., **Knöller, K.**, Fenton, O., Heesch, S., Morrison, L. (2024):
Seasonal variability of golden tides (*Pylaiella littoralis*, Phaeophyceae) and nutrient dynamics in a potentially eutrophic intertidal estuary
J. Mar. Sci. Eng. **12** (12), art. 2336 [10.3390/jmse12122336](https://doi.org/10.3390/jmse12122336)

324. Hartmann, T., Middendorf, M., **Bernt, M.** (2024):
Genome rearrangement analysis: Cut and join genome rearrangements and gene cluster preserving approaches
In: Setubal, J.C., Stadler, P.F., Stoye, J. (eds.)
Comparative genomics: Methods and protocols
Methods in Molecular Biology 2802
Springer Nature, p. 215 - 245 [10.1007/978-1-0716-3838-5_9](https://doi.org/10.1007/978-1-0716-3838-5_9)
325. Harzendorf, F., **Markus, T.**, Ross, A., Valencia Cotera, R., **Baust, C.**, Vögele, S., Taraborrelli, D., Zapp, P., Karydis, V.A., Bowyer, P., Stolten, D. (2024):
Criteria for effective site selection of direct air capture and storage projects
Environ. Res. Lett. **19** (11), art. 111009 [10.1088/1748-9326/ad7a0f](https://doi.org/10.1088/1748-9326/ad7a0f)
326. **Hashar, M.R.**, Nasrin, S., Freese, D., Veste, M. (2024):
Study of phosphorus status and sorption properties in reclaimed lignite mine soils under different age stands of *Robinia pseudoacacia* L. in Welzow, Germany
Land Degrad. Dev. **35** (14), 4189 - 4200 [10.1002/ldr.5214](https://doi.org/10.1002/ldr.5214)
327. Hauschild, K., Orth, N., Liu, B., Giongo, A., Gschwendtner, S., Beerhues, L., Schlöter, M., **Vetterlein, D.**, Winkelmann, T., Smalla, K. (2024):
Rhizosphere competent inoculants modulate the apple root-associated microbiome and plant phytoalexins
Appl. Microbiol. Biotechnol. **108** (1), art. 344 [10.1007/s00253-024-13181-8](https://doi.org/10.1007/s00253-024-13181-8)
328. Hayman, G., Poulter, B., Ghude, S.D., Blyth, E., Sinha, V., Archibald, S., Ashworth, K., Barlow, V., Fares, S., Feig, G., Hiyama, T., Jin, J., Juhola, S., Lee, M., Leuzinger, S., **Mahecha, M.D.**, Meng, X., Odee, D., Purser, G., Sato, H., Saxena, P., Semeena, V.S., Steiner, A., Wang, X., Wolff, S. (2024):
Research into land atmosphere interactions supports the sustainable development agenda
Glob. Sustain. **7**, e12 [10.1017/sus.2024.3](https://doi.org/10.1017/sus.2024.3)
329. Hayot, G., Marcato, D., Cramer von Clausbruch, C.A., Pace, G., Strähle, U., Colbourne, J.K., Pylatiuk, C., Peravali, R., Weiss, C., **Scholz, S.**, Dickmeis, T. (2024):
Evaluating toxicity of chemicals using a zebrafish vibration startle response screening system
J. Vis. Exp. **2024** (203), e66153 [10.3791/66153](https://doi.org/10.3791/66153)
330. Hayot, G., **Massei, R.**, Lloyd, G., Keith, N., Diwan, G., Martinez Lopez, R., Barnard, M., Cramer von Clausbruch, C.A., **Grasse, N.**, Smoot, S., **Escher, B.**, Tennesen, J., Tindall, A., Oliver, B., Shaw, J., **Scholz, S.**, Freedman, J., Strähle, U., Colbourne, J., Weiss, C., Dickmeis, T. (2024):
Systematic acquisition of toxicity data in non- sentient models across animal phylogeny: implications for read- across and estimation of toxicity in humans
Naunyn-Schmiedeberg's Arch. Pharmacol. **397** (Suppl. 1), S17 - S18-69 [10.1007/s00210-024-02974-3](https://doi.org/10.1007/s00210-024-02974-3)

331. **He, J., Castilla Alcantara, J.C.,** Ortega-Calvo, J.J., **Harms, H., Wick, L.Y.** (2024): DC electric fields promote biodegradation of waterborne naphthalene in biofilter systems *Environ. Sci. Technol.* **58** (41), 18234 - 18243 [10.1021/acs.est.4c02924](https://doi.org/10.1021/acs.est.4c02924)
332. He, M., Barry, K.E., Soons, M.B., Allan, E., Cappelli, S.L., Craven, D., Doležal, J., Isbell, F., Lanta, V., Lepš, J., Liang, M., Mason, N., Palmborg, C., Pichon, N.A., da Silveira Pontes, L., Reich, P.B., **Roscher, C.,** Hautier, Y. (2024): Cumulative nitrogen enrichment alters the drivers of grassland overyielding *Commun. Biol.* **7** , art. 309 [10.1038/s42003-024-05999-9](https://doi.org/10.1038/s42003-024-05999-9)
333. **Heilemann, J., Klassert, C., Samaniego, L., Thober, S., Marx, A., Boeing, F., Klauer, B., Gawel, E.** (2024): Projecting impacts of extreme weather events on crop yields using LASSO regression *Weather Clim. Extremes* **46** , art. 100738 [10.1016/j.wace.2024.100738](https://doi.org/10.1016/j.wace.2024.100738)
334. Heinrich, L., Singh, P., Smith Stegan, K., **Markus, T.** (2024): Mind the gap and close it: Regulating greenhouse gas emissions from deep-sea mining in the Area *Mar. Pol.* **160** , art. 105929 [10.1016/j.marpol.2023.105929](https://doi.org/10.1016/j.marpol.2023.105929)
335. Heistermann, M., Francke, T., **Schrön, M.,** Oswald, S.E. (2024): Technical Note: Revisiting the general calibration of cosmic-ray neutron sensors to estimate soil water content *Hydrol. Earth Syst. Sci.* **28** (4), 989 - 1000 [10.5194/hess-28-989-2024](https://doi.org/10.5194/hess-28-989-2024)
336. Heita, H.T.N., **Dressler, G.,** Schwieger, D.A.M., Mbidzo, M. (2024): Pastoralists' perceptions on the future of cattle farming amidst rangeland degradation: A case study from Namibia's semiarid communal areas *Rangelands* **46** (1), 1 - 12 [10.1016/j.rala.2023.10.001](https://doi.org/10.1016/j.rala.2023.10.001)
337. Helander, H., Schnepf, S., Stetter, T., Ferrara, F., **Leipold, S.** (2024): Convenient solutions, inconvenient truths – Why supermarkets will not drive food system transformation *Ecol. Econ.* **218** , art. 108096 [10.1016/j.ecolecon.2023.108096](https://doi.org/10.1016/j.ecolecon.2023.108096)
338. Helfenstein, J., Hepner, S., Kreuzer, A., Achermann, G., Williams, T., Bürgi, M., Debonne, N., Dimopoulos, T., Diogo, V., Fjellstad, W., Garcia-Martin, M., Hernik, J., Kizos, T., **Lausch, A.,** Levers, C., Liira, J., Mohr, F., Moreno, G., Pazur, R., Salata, T., Schüpbach, B., Swart, R., Verburg, P.H., Zarina, A., Herzog, F. (2024): Divergent agricultural development pathways across farm and landscape scales in Europe: Implications for sustainability and farmer satisfaction *Glob. Environ. Change* **86** , art. 102855 [10.1016/j.gloenvcha.2024.102855](https://doi.org/10.1016/j.gloenvcha.2024.102855)

339. Hendrickx, M.G.A., Diels, J., Janssens, P., **Schlüter, S.**, Vanderborght, J. (2024):
Temporal covariance of spatial soil moisture variations: A mechanistic error modeling approach
Vadose Zone J. **23** (3), e20295 [10.1002/vzj2.20295](https://doi.org/10.1002/vzj2.20295)
340. **Henn, E.V., Neubauer, M., Marquard, E.,** Hodapp, D., Hepach, H., Hillebrand, H., **Seppelt, R., Settele, J.** (2024):
Perspektiven eines politikplanenden Biodiversitätsschutzgesetzes: Rechtsrahmen, Ausgestaltung und Forschungsbedarf [Perspectives of a policy-planning biodiversity protection law: Legal framework, design, and need for research]
Nat. Recht **46** (4), 234 - 242 [10.1007/s10357-024-4330-2](https://doi.org/10.1007/s10357-024-4330-2)
341. **Henneberger, L., Huchthausen, J., Braasch, J., König, M., Escher, B.I.** (2024):
In vitro metabolism and p53 activation of genotoxic chemicals: abiotic CYP enzyme vs liver microsomes
Chem. Res. Toxicol. **37** (8), 1364 - 1373 [10.1021/acs.chemrestox.4c00101](https://doi.org/10.1021/acs.chemrestox.4c00101)
342. Hensel, T., Hein, J.-H., **Reemtsma, T.,** Sperlich, A., Gnirß, R., Zietzschmann, F. (2024):
In situ calibration of a tube passive sampler in wastewater effluent with adjustable volumetric flow for the assessment of micropollutants with fluctuating concentrations
ACS ES&T Wat. **4** (12), 5310 - 5319 [10.1021/acsestwater.4c00348](https://doi.org/10.1021/acsestwater.4c00348)
343. Herold, R., Beisembina, G., **Dietrich, P.,** Börner, F. (2024):
Experimental investigations on laboratory samples regarding the connection of spectral induced polarization to heterogeneity of hydraulic conductivity
Environ. Earth Sci. **83** (13), art. 389 [10.1007/s12665-024-11689-w](https://doi.org/10.1007/s12665-024-11689-w)
344. Hertz, T., **Banitz, T.,** Martínez-Peña, R., Radosavljevic, S., Lindkvist, E., Johansson, L.-G., Ylikoski, P., Schlüter, M. (2024):
Eliciting the plurality of causal reasoning in social-ecological systems research
Ecol. Soc. **29** (1), art. 14 [10.5751/ES-14806-290114](https://doi.org/10.5751/ES-14806-290114)
345. **HeBe, F., Müller, S., Attinger, S.** (2024):
Data-driven estimates for the geostatistical characterization of subsurface hydraulic properties
Hydrol. Earth Syst. Sci. **28** (2), 357 - 374 [10.5194/hess-28-357-2024](https://doi.org/10.5194/hess-28-357-2024)
346. Hidalgo, K.J., Centurion, V.B., Lemos, L.N., Soriano, A.U., Valoni, E., Baessa, M.P., **Richnow, H.H., Vogt, C.,** Oliveira, V.M. (2024):
Disentangling the microbial genomic traits associated with aromatic hydrocarbon degradation in a jet fuel-contaminated aquifer
Biodegradation **36** , art. 7 [10.1007/s10532-024-10100-6](https://doi.org/10.1007/s10532-024-10100-6)

347. **Hildebrandt, S.**, Krueger, E.H., Ruhl, A.S., **Borchardt, D.** (2024):
Efficacy of point source legislation quantified for a 64-year river water quality trajectory of phosphorus loading
J. Environ. Manage. **352**, art. 119956 [10.1016/j.jenvman.2023.119956](https://doi.org/10.1016/j.jenvman.2023.119956)
348. Hilker, F.M., **Kolb, L.-D.**, Hamelin, F.M. (2024):
Selfish grower behavior can group-optimally eradicate plant diseases caused by coinfection
Int. Game Theory Rev. **26** (2), art. 2440006 [10.1142/S0219198924400061](https://doi.org/10.1142/S0219198924400061)
349. Hilman, B., **Solly, E.F.**, Kuhlmann, I., Brunner, I., Hagedorn, F. (2024):
Species-specific reliance of trees on ectomycorrhizal fungi for nitrogen supply at an alpine treeline
Fungal Ecol. **71**, art. 101361 [10.1016/j.funeco.2024.101361](https://doi.org/10.1016/j.funeco.2024.101361)
350. Hirth, N., Wiesemann, N., Krüger, S., Gerlach, M.-S., Preussner, K., Galea, D., **Herzberg, M.**, Große, C., Nies, D.H. (2024):
A gold speciation that adds a second layer to synergistic gold-copper toxicity in *Cupriavidus metallidurans*
Appl. Environ. Microb. **90** (4), e00146-24 [10.1128/aem.00146-24](https://doi.org/10.1128/aem.00146-24)
351. Hmedat, A.N., **Chávez Morejón, M.**, Rivera, D.G., Pantelic, N.Đ., Wessjohann, L.A., Kaluđerović, G.N. (2024):
In vitro anticancer studies of a small library of cyclic lipopeptides against the human cervix adenocarcinoma HeLa cells
J. Serb. Chem. Soc. **89** (4), 471 - 484 [10.2298/JSC240109018H](https://doi.org/10.2298/JSC240109018H)
352. Hoffstadt, K., **Nikolausz, M.**, Krafft, S., **Bonatelli, M.L.**, Kumar, V., **Harms, H.**, Kuperjans, I. (2024):
Optimization of the ex situ biomethanation of hydrogen and carbon dioxide in a novel meandering plug flow reactor: Start-up phase and flexible operation
Bioengineering **11** (2), art. 165 [10.3390/bioengineering11020165](https://doi.org/10.3390/bioengineering11020165)
353. **Hofmann, S.**, Jablonski, D., Schmidt, J. (2024):
Morphological and molecular data warrant the description of a new species of the genus *Scutiger* (Anura, Megophryidae) from the Central Himalaya
ZooKeys **1210**, 229 - 246 [10.3897/zookeys.1210.127106](https://doi.org/10.3897/zookeys.1210.127106)
354. Hofstetter, T.B., Bakkour, R., Buchner, D., Eisenmann, H., Fischer, A., **Gehre, M.**, Haderlein, S.B., Höhener, P., Hunkeler, D., Imfeld, G., Jochmann, M.A., **Kümmel, S.**, Martin, P.R., Pati, S.G., Schmidt, T.C., **Vogt, C.**, Elsner, M. (2024):
Perspectives of compound-specific isotope analysis of organic contaminants for assessing environmental fate and managing chemical pollution
Nat. Water **2** (1), 14 - 30 [10.1038/s44221-023-00176-4](https://doi.org/10.1038/s44221-023-00176-4)

355. Hohm, M., Moesch, S.S., Bahm, J., **Haase, D.**, Jeschke, J.M., Balkenhol, N. (2024):
Reintroduced, but not accepted: Stakeholder perceptions of beavers in Germany
People Nat. **6** (4), 1681 - 1695 [10.1002/pan3.10678](https://doi.org/10.1002/pan3.10678)
356. **Höhm, S.M., Briol, T.A., Ihle, N., Frick, O., Schmid, A., Bühler, B.** (2024):
Glycolate as alternative carbon source for *Escherichia coli*
J. Biotechnol. **381**, 76 - 85 [10.1016/j.jbiotec.2024.01.001](https://doi.org/10.1016/j.jbiotec.2024.01.001)
357. **Holtmann, A., Huth, A., Bohn, F., Fischer, R.** (2024):
Assessing the impact of multi-year droughts on German forests in the context of increased tree mortality
Ecol. Model. **492**, art. 110696 [10.1016/j.ecolmodel.2024.110696](https://doi.org/10.1016/j.ecolmodel.2024.110696)
358. Hoppe, H., **Dietrich, P.**, Marzahn, P., Weiß, T., Nitzsche, C., Freiherr von Lukas, U., Wengerek, T., Borg, E. (2024):
Transferability of machine learning models for crop classification in remote sensing imagery using a new test methodology: a study on phenological, temporal, and spatial influences
Remote Sens. **16** (9), art. 1493 [10.3390/rs16091493](https://doi.org/10.3390/rs16091493)
359. Horovitz, M., Muñoz-Vega, E., **Knöller, K.**, Leitão, T.E., Schüth, C., Schulz, S. (2024):
Infiltration of secondary treated wastewater into an oxic aquifer: Hydrochemical insights from a large-scale sand tank experiment
Water Res. **267**, art. 122542 [10.1016/j.watres.2024.122542](https://doi.org/10.1016/j.watres.2024.122542)
360. **Horst, A., Gehre, M., Fahle, M., Kümmel, S.** (2024):
Continuous-flow stable sulfur isotope analysis of organic and inorganic compounds by EA-MC-ICPMS
Anal. Chem. **96** (21), 8510 - 8517 [10.1021/acs.analchem.4c00439](https://doi.org/10.1021/acs.analchem.4c00439)
361. Hou, J., McCormack, M.L., Reich, P.B., Sun, T., Phillips, R.P., Lambers, H., Chen, H.Y.H., Ding, Y., Comas, L.H., Valverde-Barrantes, O.J., **Solly, E.F.**, Freschet, G.T. (2024):
Linking fine root lifespan to root chemical and morphological traits—A global analysis
Proc. Natl. Acad. Sci. U.S.A. **121** (16), e2320623121 [10.1073/pnas.2320623121](https://doi.org/10.1073/pnas.2320623121)
362. **Hromova, Y., Brauns, M., Kamjunke, N.** (2024):
Lagrangian dynamics of the spring zooplankton community in a large river
Hydrobiologia **851**, 3603 - 3621 [10.1007/s10750-024-05520-7](https://doi.org/10.1007/s10750-024-05520-7)
363. Hu, D., **Guo, F.**, Meng, Q., **Schlink, U.**, Wang, S., **Hertel, D.**, Gao, J. (2024):
A novel dual-layer composite framework for downscaling urban land surface temperature coupled with spatial autocorrelation and spatial heterogeneity
Int. J. Appl. Earth Obs. Geoinf. **130**, art. 103900 [10.1016/j.jag.2024.103900](https://doi.org/10.1016/j.jag.2024.103900)

364. Hu, T., Zhang, Y., Wang, H., Jin, H., Liu, B., Lin, Z., Ma, J., Wang, X., Liu, Q., Liu, H., Chen, Z., Zhou, R., Jin, P., Zhu, J., Liu, G., **Bei, Q.**, Lin, X., Xie, Z. (2024):
Biological nitrogen fixation in rice paddy soils is driven by multiple edaphic factors and available phosphorus is the greatest contributor
Pedosphere **34** (6), 993 - 1001 [10.1016/j.pedsph.2023.09.002](https://doi.org/10.1016/j.pedsph.2023.09.002)

365. Huang, Q., Xu, C., **Haase, D.**, Teng, Y., Su, M., Yang, Z. (2024):
Heterogeneous effects of the availability and spatial configuration of urban green spaces on their cooling effects in China
Environ. Int. **183**, art. 108385 [10.1016/j.envint.2023.108385](https://doi.org/10.1016/j.envint.2023.108385)

366. Huang, Y., Stein, G., Kolle, O., Kübler, K., Schulze, E.-D., Dong, H., Eichenberg, D., Gleixner, G., **Hildebrandt, A.**, Lange, M., **Roscher, C.**, Schielzeth, H., Schmid, B., Weigelt, A., Weisser, W.W., Shadaydeh, M., Denzler, J., Ebeling, A., Eisenhauer, N. (2024):
Enhanced stability of grassland soil temperature by plant diversity
Nat. Geosci. **17** (1), 44 - 50 [10.1038/s41561-023-01338-5](https://doi.org/10.1038/s41561-023-01338-5)

367. **Huber, C., Brack, W., Röder, S., von Bergen, M., Rolle-Kampczyk, U., Zenclessen, A.C., Krauss, M., Herberth, G.** (2024):
Pesticide residues and polyphenols in urine – A combined LC-HRMS screening to reveal intake patterns
Environ. Int. **191**, art. 108981 [10.1016/j.envint.2024.108981](https://doi.org/10.1016/j.envint.2024.108981)

368. Huber, R., **Bartkowski, B.**, Brown, C., El Benni, N., Feil, J.-H., Grohmann, P., Leonhardt, H., Mitter, H., **Müller, B.** (2024):
Farm typologies for understanding farm systems and improving agricultural policy
Agric. Syst. **213**, art. 103800 [10.1016/j.agsy.2023.103800](https://doi.org/10.1016/j.agsy.2023.103800)

369. **Huchthausen, J., Braasch, J., Escher, B.I., König, M., Henneberger, L.** (2024):
Effects of chemicals in reporter gene bioassays with different metabolic activity compared to baseline toxicity
Chem. Res. Toxicol. **37** (5), 744 - 756 [10.1021/acs.chemrestox.4c00017](https://doi.org/10.1021/acs.chemrestox.4c00017)

370. Huillet, M., Lasserre, F., Gratacap, M.-P., **Engelmann, B.**, Bruse, J., Polizzi, A., Fougerey, T., Martin, C.M.P., Rives, C., Fougerey, A., Naylies, C., Lippi, Y., Garcia, G., Rousseau-Bacque, E., Canlet, C., Debrauwer, L., **Rolle-Kampczyk, U., von Bergen, M.**, Payrastra, B., Boutet-Robinet, E., Gamet-Payrastra, L., Guillou, H., Loiseau, N., Ellero-Simatos, S. (2024):
Pharmacological activation of constitutive androstane receptor induces female-specific modulation of hepatic metabolism
JHEP Rep. **6** (1), art. 100930 [10.1016/j.jhepr.2023.100930](https://doi.org/10.1016/j.jhepr.2023.100930)

371. Hutengs, C., Eisenhauer, N., **Schädler, M.**, Cesarz, S., Lochner, A., Seidel, M., Vohland, M. (2024):
Enhanced VNIR and MIR proximal sensing of soil organic matter and PLFA-derived soil microbial properties through machine learning ensembles and external parameter orthogonalization
Geoderma **450**, art. 117037 [10.1016/j.geoderma.2024.117037](https://doi.org/10.1016/j.geoderma.2024.117037)
372. Ilić, P., Ilić, S., Mushtaq, Z., Rashid, A., Stojanović Bjelić, L., Nešković Markić, D., Mrazovac Kurilić, S., Farooqi, Z.U.R., Jat Baloch, M.Y., **Mehmood, T.**, Ullah, Z., Riaz, S. (2024):
Assessing the ecological risks and spatial distribution of heavy metal contamination at solid waste dumpsites
Eurasian Soil Sci. **57** (7), 1277 - 1296 [10.1134/S1064229324700303](https://doi.org/10.1134/S1064229324700303)
373. Inostroza, P.A., Elgueta, S., **Krauss, M., Brack, W.**, Backhaus, T. (2024):
A multi-scenario risk assessment strategy applied to mixtures of chemicals of emerging concern in the River Aconcagua basin in Central Chile
Sci. Total Environ. **921**, art. 171054 [10.1016/j.scitotenv.2024.171054](https://doi.org/10.1016/j.scitotenv.2024.171054)
374. Inostroza, P.A., Soriano, Y., **Carmona, E., Krauss, M., Brack, W.**, Backhaus, T., Quiñones, R.A. (2024):
Preliminary dataset of emerging contaminants in surface water, bottom water, porewater, and sediment: Urban and aquaculture impacts in Coliumo bay and Caucahue Channel in the central and southern coast of Chile
Data Brief **55**, art. 110593 [10.1016/j.dib.2024.110593](https://doi.org/10.1016/j.dib.2024.110593)
375. Iqbal, H.H., Qadir, A., Ahmad, S.R., Riaz, M.A., Riaz, A., **Shahid, N.**, Arslan, M. (2024):
Residual assessment of emerging pesticides in aquatic sinks of Lahore, Pakistan
Sustainability **16** (21), art. 9257 [10.3390/su16219257](https://doi.org/10.3390/su16219257)
376. Iqbal, H.H., **Siddique, A.**, Qadir, A., Ahmed, S.R., **Liess, M., Shahid, N.** (2024):
Human health and ecology at risk: a case study of metal pollution in Lahore, Pakistan
Environ. Sci. Eur. **36**, art. 9 [10.1186/s12302-023-00824-2](https://doi.org/10.1186/s12302-023-00824-2)
377. Iutynska, H.O., **Yamborko, N.A.** (2024):
Biological plant protection in the European Union (in Germany as an example)
Mikrobiol. Z. **86** (3), 76 - 87 [10.15407/microbiolj86.03.076](https://doi.org/10.15407/microbiolj86.03.076)
378. **Izadi, P.**, Song, J., Singh, C., Pant, D., **Harnisch, F.** (2024):
Assessing the electrochemical CO₂ reduction reaction performance requires more than reporting coulombic efficiency
Adv. Energy Sustain. Res. **5** (6), art. 2400031 [10.1002/aesr.202400031](https://doi.org/10.1002/aesr.202400031)

379. Jablonski, D., **Hofmann, S.** (2024):
Over-splitting and inconsistently applied criteria: a response to recent changes on the taxonomy of mountain spiny frogs (Dicroglossidae, *Nanorana*)
Alytes **41** (1-4), 40 - 48
380. Jablonski, D., Mebert, K., Masroor, R., Simonov, E., Kukushkin, O., Abduraupov, T., **Hofmann, S.** (2024):
The Silk roads: phylogeography of Central Asian dice snakes (Serpentes: Natricidae) shaped by rivers in deserts and mountain valleys
Curr. Zool. **70** (2), 150 - 162 [10.1093/cz/zoad008](https://doi.org/10.1093/cz/zoad008)
381. Jaeger, A.C.H., Hartmann, M., Conz, R.F., Six, J., **Solly, E.F.** (2024):
Prolonged water limitation shifts the soil microbiome from copiotrophic to oligotrophic lifestyles in Scots pine mesocosms
Environ. Microbiol. Rep. **16** (1), e13211 [10.1111/1758-2229.13211](https://doi.org/10.1111/1758-2229.13211)
382. Jaeger, A.C.H., Hartmann, M., Conz, R.F., Six, J., **Solly, E.F.** (2024):
Drought-induced tree mortality in Scots pine mesocosms promotes changes in soil microbial communities and trophic groups
Appl. Soil Ecol. **194**, art. 105198 [10.1016/j.apsoil.2023.105198](https://doi.org/10.1016/j.apsoil.2023.105198)
383. Jaeger, J.W., Brandt, A., Gui, W., Yergaliyev, T., Hernández-Arriaga, A., Muthu, M.M., Edlund, K., Elashy, A., Molinaro, A., Möckel, D., Sarges, J., Halibasic, E., Trauner, M., Kahles, F., **Rolle-Kampczyk, U.**, Hengstler, J., Schneider, C.V., Lammers, T., Marschall, H.-U., **von Bergen, M.**, Camarinha-Silva, A., Bergheim, I., Trautwein, C., Schneider, K.M. (2024):
Microbiota modulation by dietary beta-glucan prevents steatotic liver disease progression
JHEP Rep. **6** (3), art. 100987 [10.1016/j.jhepr.2023.100987](https://doi.org/10.1016/j.jhepr.2023.100987)
384. Jampani, M., Mateo-Sagasta, J., **Chandrasekar, A.**, Fatta-Kassinos, D., Graham, D.W., Gothwal, R., Moodley, A., Chadag, V.M., Wiberg, D., Langan, S. (2024):
Fate and transport modelling for evaluating antibiotic resistance in aquatic environments: Current knowledge and research priorities
J. Hazard. Mater. **461**, art. 132527 [10.1016/j.jhazmat.2023.132527](https://doi.org/10.1016/j.jhazmat.2023.132527)
385. Januschke, K., Hering, D., **Scholz, M.**, Ehlert, T., Rumm, A., Stammel, B. (2024):
Biozönotische Erfolgskontrolle von Renaturierungsmaßnahmen an Gewässerufeln und in Auen [Biocoenotic success monitoring of renaturation measures on river banks and on flood plains]
Wasser und Abfall **26** (6), 36 - 41 [10.1007/s35152-024-1865-8](https://doi.org/10.1007/s35152-024-1865-8)

386. Jax, M., Weßendorf, A., Lichter, J., Stief, L., Lobes, N., Egele, K., **Rolle-Kampczyk, U., Engelmann, B., von Bergen, M.**, Bock, U., Blömeke, B. (2024):
Response of innate immune cells and alveolar type 1 cell line to 4,4'-methylenediphenyl diisocyanate
Naunyn-Schmiedeberg's Arch. Pharmacol. **397** (Suppl. 1),
S73 - P231 [10.1007/s00210-024-02974-3](https://doi.org/10.1007/s00210-024-02974-3)
387. **Jean-Louis, G.**, Eckhardt, M., Podschun, S., Mahnkopf, J., Venohr, M. (2024):
Estimating daily bicycle counts with Strava data in rural and urban locations
Travel Behav. Soc. **34**, art. 100694 [10.1016/j.tbs.2023.100694](https://doi.org/10.1016/j.tbs.2023.100694)
388. Jechow, A., **Bumberger, J., Palm, B., Remmler, P.**, Schreck, G., Ogashawara, I., Kiel, C., Kohnert, K., Grossart, H.-P., Singer, G.A., Nejstgaard, J.C., Wollrab, S., Berger, S.A., Hölker, F. (2024):
Characterizing and implementing the Hamamatsu C12880MA mini-spectrometer for near-surface reflectance measurements of inland waters
Sensors **24** (19), art. 6445 [10.3390/s24196445](https://doi.org/10.3390/s24196445)
389. Jedicke, E., Brunzel, S., Darbi, M., von Haaren, C., Klein, A.-M., Konold, W., Luick, R., Marschall, I., Niebert, K., Ott, K., Plieninger, T., Pröbstl-Haider, U., Reinke, M., **Settele, J.**, Tischew, S. (2024):
Für eine zukunftsfähige Naturschutzverwaltung im 21. Jahrhundert. Teil 1:
Grundprobleme auf den drei Verwaltungsebenen in den Bundesländern
Natursch. Landschaftspl. **56** (5), 34 - 45 [10.1399/NuL.31333](https://doi.org/10.1399/NuL.31333)
390. Jedicke, E., Brunzel, S., Darbi, M., von Haaren, C., Klein, A.-M., Konold, W., Luick, R., Marschall, I., Niebert, K., Ott, K., Plieninger, T., Pröbstl-Haider, U., Reinke, M., **Settele, J.**, Tischew, S. (2024):
Für eine zukunftsfähige Naturschutzverwaltung im 21. Jahrhundert. Teil 2:
Lösungsansätze – ein Aufruf zu einem notwendigen Reformprozess [Sustainable nature conservation administration in the 21st century – Part 2: Possible solutions – a call for a necessary reform process]
Natursch. Landschaftspl. **56** (6), 12 - 19 [10.1399/NuL.37502](https://doi.org/10.1399/NuL.37502)
391. Jespersen, C., Trapp, S., **Kästner, M.** (2024):
Non-extractable residues (NER) in persistence assessment: effect on the degradation half-life of chemicals
Environ. Sci. Eur. **36**, art. 206 [10.1186/s12302-024-01025-1](https://doi.org/10.1186/s12302-024-01025-1)
392. Jia, R., Zhou, J., Yang, L., **Blagodatskaya, E.**, Jones, D.L., Razavi, B.S., Yang, Y., Kuzyakov, Y., Zeng, Z., Zang, H. (2024):
Trade-off between soil enzyme activities and hotspots area depends on long-term fertilization: *In situ* field zymography
Sci. Total Environ. **954**, art. 176386 [10.1016/j.scitotenv.2024.176386](https://doi.org/10.1016/j.scitotenv.2024.176386)

393. Jia, W., **Chen, M.**, Yao, H., Wang, Y., Wang, S., Ni, X. (2024):
Improving sub-daily runoff forecast based on the multi-objective optimized extreme learning machine for reservoir operation
Water Resour. Manag. **38** (15), 6173 - 6189 [10.1007/s11269-024-03953-2](https://doi.org/10.1007/s11269-024-03953-2)
394. Jiang, S., **Sweet, L.-B.**, Blougouras, G., Brenning, A., Li, W., Reichstein, M., Denzler, J., Shangguan, W., Yu, G., Huang, F., **Zscheischler, J.** (2024):
How interpretable machine learning can benefit process understanding in the geosciences
Earth Future **12** (7), e2024EF004540 [10.1029/2024EF004540](https://doi.org/10.1029/2024EF004540)
395. **Jiang, S.**, **Tarasova, L.**, Yu, G., **Zscheischler, J.** (2024):
Compounding effects in flood drivers challenge estimates of extreme river floods
Sci. Adv. **10** (13), eadl4005 [10.1126/sciadv.adl4005](https://doi.org/10.1126/sciadv.adl4005)
396. **Jiménez-Franco, M.V.**, Graciá, E., Rodríguez-Caro, R.C., Anadón, J.D., **Wiegand, T.**, Giménez, A. (2024):
Alternative vegetation trajectories through passive habitat rewilding: opposite effects for animal conservation
Landsc. Ecol. **39** (4), art. 78 [10.1007/s10980-024-01880-6](https://doi.org/10.1007/s10980-024-01880-6)
397. Jin, C., Jiao, J., Wu, C., Mu, Y., Zheng, S., You, L., **Wu, W.**, Liu, J., Jiang, B. (2024):
Sparse large trees in secondary and planted forests highlight the need to improve forest conservation and management
Sci. Total Environ. **954**, art. 176363 [10.1016/j.scitotenv.2024.176363](https://doi.org/10.1016/j.scitotenv.2024.176363)
398. Joerss, H., Freeling, F., van Leeuwen, S., Hollender, J., Liu, X., Nödler, K., Wang, Z., Yu, B., **Zahn, D.**, Sigmund, G. (2024):
Corrigendum to “Pesticides can be a substantial source of trifluoroacetate (TFA) to water resources” [Environ. Inter. 193 (2024) 109061]
Environ. Int. **194**, art. 109198 [10.1016/j.envint.2024.109198](https://doi.org/10.1016/j.envint.2024.109198)
399. Joerss, H., Freeling, F., van Leeuwen, S., Hollender, J., Liu, X., Nödler, K., Wang, Z., Yu, B., **Zahn, D.**, Sigmund, G. (2024):
Pesticides can be a substantial source of trifluoroacetate (TFA) to water resources
Environ. Int. **193**, art. 109061 [10.1016/j.envint.2024.109061](https://doi.org/10.1016/j.envint.2024.109061)
400. **Jordan, M.**, Meisel, K., Dotzauer, M., Schindler, H., Schröder, J., Cyffka, K.-F., Dögnitz, N., Naumann, K., Schmid, C., Lenz, V., Daniel-Gromke, J., Costa de Paiva, G., **Esmacili Aliabadi, D.**, Szarka, N., **Thrän, D.** (2024):
Do current energy policies in Germany promote the use of biomass in areas where it is particularly beneficial to the system? Analysing short- and long-term energy scenarios
Energy Sustain. Soc. **14**, art. 32 [10.1186/s13705-024-00464-1](https://doi.org/10.1186/s13705-024-00464-1)

401. **Jordan, M.**, Meisel, K., **Dotzauer, M.**, Schröder, J., Cyffka, K.-F., Dögnitz, N., Schindler, H., Schmid, C., Lenz, V., Naumann, K., Daniel-Gromke, J., Costa de Paiva, G., Szarka, N., **Esmaeili Aliabadi, D.**, **Thrän, D.** (2024):
Scenarios for the optimal use of biomass in the future German energy system until 2050
32nd European Biomass Conference and Exhibition, 24-27 June, Marseille, France
EUBCE Proceedings
ETA-Florence Renewable Energies, Florence, p. 224
- 227 [10.5071/32ndEUBCE2024-2DO.5.2](https://doi.org/10.5071/32ndEUBCE2024-2DO.5.2)
402. Ju, W., Fang, L., **Shen, G.**, Delgado-Baquerizo, M., Chen, J., Zhou, G., Ma, D., Bing, H., Liu, L., Liu, J., Jin, X., Guo, L., Tan, W., **Blagodatskaya, E.** (2024):
New perspectives on microbiome and nutrient sequestration in soil aggregates during long-term grazing exclusion
Glob. Change Biol. **30** (1), e17027 [10.1111/gcb.17027](https://doi.org/10.1111/gcb.17027)
403. Jung, A., Szabó, D., Varga, Z., **Lausch, A.**, Vohland, M., Sipos, L. (2024):
Daily light integral maps for agriculture lighting design in Spain
Smart Agric. Technol. **9**, art. 100681 [10.1016/j.atech.2024.100681](https://doi.org/10.1016/j.atech.2024.100681)
404. **Jung, P.**, Hornbruch, G., Dahmke, A., **Dietrich, P.**, **Werban, U.** (2024):
Combining crosshole and reflection borehole ground-penetrating radar (GPR) for imaging controlled freezing in shallow aquifers
Solid Earth **15** (12), 1465 - 1477 [10.5194/se-15-1465-2024](https://doi.org/10.5194/se-15-1465-2024)
405. **Jurburg, S.D.**, **Álvarez Blanco, M.J.**, **Chatzinotas, A.**, Kazem, A., Babin, D., König-Ries, B., Smalla, K., Cerecetto, V., Fernandez-Gnecco, G., Covacevich, F., Viruel, E., Bernaschina, Y., Leoni, C., Garaycochea, S., Terra, J.A., Fresia, P., Figuerola, E.L.M., Wall, L.G., Covelli, J.M., Agnello, A.C., Nieto, E.E., Festa, S., Dominici, L.E., Allegrini, M., Zabaloy, M.C., Morales, M.E., Erijman, L., Coniglio, A., Cassán, F.D., Nievas, S., Roldán, D.M., Menes, R., Jauri, P.V., Marrero, C.S., Massa, A.M., Morel Revetria, M.A., Fernández-Scavino, A., Pereira-Mora, L., Martínez, S., Frene, J.P., Datathon 2022 Consortium, (2024):
Datathons: fostering equitability in data reuse in ecology
Trends Microbiol. **32** (5), 415 - 418 [10.1016/j.tim.2024.02.010](https://doi.org/10.1016/j.tim.2024.02.010)
406. **Jurburg, S.D.**, Blowes, S.A., Shade, A., Eisenhauer, N., Chase, J.M. (2024):
Synthesis of recovery patterns in microbial communities across environments
Microbiome **12**, art. 79 [10.1186/s40168-024-01802-3](https://doi.org/10.1186/s40168-024-01802-3)
407. Kabisch, N., **Hornick, T.**, **Bumberger, J.**, **Krämer, R.**, Legg, R., Masztalerz, O., Bastl, M., Simon, J.C., Treudler, R., **Dunker, S.** (2024):
Monitoring and perception of allergenic pollen in urban park environments
Landsc. Urban Plan. **250**, art. 105133 [10.1016/j.landurbplan.2024.105133](https://doi.org/10.1016/j.landurbplan.2024.105133)

408. **Kachler, J., Felipe-Lucia, M.R.,** Isaac, R., **Bonn, A.,** Martín-López, B. (2024):
Intrinsic, instrumental and relational values behind nature's contributions to people
preferences of nature visitors in Germany
Ecosyst. People **20** (1), art. 2342361 [10.1080/26395916.2024.2342361](https://doi.org/10.1080/26395916.2024.2342361)

409. Kahsay, B.N., **Moeller, L.,** Wohlrab, J., Neubert, R.R.H., Gebre-Mariam, T. (2024):
Delivery of small hydrophilic molecules across the stratum corneum: Identification of
model systems and parameters to study topical delivery of free amino acids
Int. J. Pharm. **661** , art. 124372 [10.1016/j.ijpharm.2024.124372](https://doi.org/10.1016/j.ijpharm.2024.124372)

410. **Kamjunke, N., Herzsprung, P., von Tümpling, W., Lechtenfeld, O.J.** (2024):
Photochemical and microbial degradation of deadwood leachate
J. Geophys. Res.-Biogeosci. **129** (12), e2024JG008184 [10.1029/2024jg008184](https://doi.org/10.1029/2024jg008184)

411. **Kamjunke, N.,** Sanders, T. (2024):
Complete exhaustion of dissolved nutrients in a large lowland river
Environ. Monit. Assess. **196** (7), art. 660 [10.1007/s10661-024-12834-5](https://doi.org/10.1007/s10661-024-12834-5)

412. Karl, A., Remih, K., Hufnagel, F., Barletta, F., Jarbouï, M.A., Müller, J., Mueller, S., Zdráhal, Z., Potěšil, D., Hruška, P., **Plešow, O., Rolle-Kampczyk, U., von Bergen, M.,** Strnad, P. (2024):
Multiomics landscape of alcohol detoxification and the role of PNPLA3 genotype
J. Hepatol. **80** (Suppl. 1), S134 [10.1016/S0168-8278\(24\)00691-3](https://doi.org/10.1016/S0168-8278(24)00691-3)

413. Karnchananiyom, S., Wayo, K., **Sritongchuay, T.,** Warrit, N., Attasopa, K., Bumrungsri, S. (2024):
Local and landscape context affects bee communities in mixed fruit orchards in Southern Thailand
Agric. For. Entomol. **26** (1), 70 - 80 [10.1111/afe.12597](https://doi.org/10.1111/afe.12597)

414. **Karras, T., Thrän, D.** (2024):
The costs of straw in Germany: Development of regional straw supply costs between 2010 and 2020
Waste Biomass Valorization **15** (9), 5369 - 5385 [10.1007/s12649-024-02528-x](https://doi.org/10.1007/s12649-024-02528-x)

415. Kasiske, T., Dauber, J., Dieker, P., **Harpke, A.,** Klimek, S., **Kühn, E.,** Levers, C., Schwieder, M., **Settele, J., Musche, M.** (2024):
Assessing landscape-level effects of permanent grassland management and landscape configuration on open-land butterflies based on national monitoring data
Biodivers. Conserv. **33** (8-9), 2381 - 2404 [10.1007/s10531-024-02861-6](https://doi.org/10.1007/s10531-024-02861-6)

416. **Kästner, M., Maskow, T., Miltner, A., Lorenz, M.,** Thiele-Bruhn, S. (2024):
Assessing energy fluxes and carbon use in soil as controlled by microbial activity - A thermodynamic perspective A perspective paper
Soil Biol. Biochem. **193** , art. 109403 [10.1016/j.soilbio.2024.109403](https://doi.org/10.1016/j.soilbio.2024.109403)

417. **Kästner, M., Maskow, T., Miltner, A.,** Lorenz, M., Thiele-Bruhn, S., Bölscher, T., Blagodatsky, S., Streck, T., Pagel, H., **Blagodatskaya, E.** (2024): Gibbs energy or enthalpy - What is relevant for microbial C-turnover in soils? A letter to Wang & Kuzyakov, GBC, 2023
Glob. Change Biol. **30** (2), e17183 [10.1111/gcb.17183](https://doi.org/10.1111/gcb.17183)
418. Kattenborn, T., Wieneke, S., Montero, D., **Mahecha, M.D.,** Richter, R., Guimarães-Steinicke, C., Wirth, C., Ferlian, O., **Feilhauer, H.,** Sachsenmaier, L., Eisenhauer, N., Dechant, B. (2024): Temporal dynamics in vertical leaf angles can confound vegetation indices widely used in Earth observations
Commun. Earth Environ. **5** , art. 550 [10.1038/s43247-024-01712-0](https://doi.org/10.1038/s43247-024-01712-0)
419. Kau, D., **Materić, D.,** Holzinger, R., Baumann-Stanzer, K., Schauer, G., Kasper-Giebl, A. (2024): Fine micro- and nanoplastics concentrations in particulate matter samples from the high alpine site Sonnblick, Austria
Chemosphere **352** , art. 141410 [10.1016/j.chemosphere.2024.141410](https://doi.org/10.1016/j.chemosphere.2024.141410)
420. Kawaguchi, S., Atkinson, A., **Bahlburg, D.,** Bernard, K.S., Cavan, E.L., Cox, M.J., Hill, S.L., Meyer, B., Veytia, D. (2024): Climate change impacts on Antarctic krill behaviour and population dynamics
Nat. Rev. Earth Environ. **5** (1), 43 - 58 [10.1038/s43017-023-00504-y](https://doi.org/10.1038/s43017-023-00504-y)
421. Kazim, M., Syed, J.H., Saqib, Z., Kurt-Karakus, P.B., **Iqbal, M.,** Nasir, J., Akcetin, M.O., Akram, S., Birgul, A., Kara, M., Dumanoglu, Y., Barq, M.G., Amin, F.R., Harner, T., Jones, K.C., Zhang, G., Odabasi, M. (2024): Informal e-waste recycling in nine cities of Pakistan reveals significant impacts on local air and soil quality and associated health risks
Environ. Pollut. **355** , art. 124259 [10.1016/j.envpol.2024.124259](https://doi.org/10.1016/j.envpol.2024.124259)
422. Keith, H., Kun, Z., Hugh, S., Svoboda, M., Mikoláš, M., Adam, D., Bernatski, D., Blujdea, V., **Bohn, F.,** Camarero, J.J., Demeter, L., Di Filippo, A., Dutcă, I., Garbarino, M., Horváth, F., Ivkovich, V., Jansons, Ā., Kēņina, L., Kral, K., Martin-Benito, D., Molina-Valero, J.A., Motta, R., Nagel, T.A., Panayotov, M., Pérez-Cruzado, C., Piovesan, G., Roibu, C.-C., Šamonil, P., Vostarek, O., Yermokhin, M., Zlatanov, T., Mackey, B. (2024): Carbon carrying capacity in primary forests shows potential for mitigation achieving the European Green Deal 2030 target
Commun. Earth Environ. **5** , art. 256 [10.1038/s43247-024-01416-5](https://doi.org/10.1038/s43247-024-01416-5)

423. **Keller, N.S., Lüders, K., Hornbruch, G., Birnstengel, S., Vogt, C., Ebert, M., Kallies, R., Dahmke, A., Richnow, H.H.** (2024):
Rapid consumption of dihydrogen injected into a shallow aquifer by ecophysiologically different microbes
Environ. Sci. Technol. **58** (1), 333 - 341 [10.1021/acs.est.3c04340](https://doi.org/10.1021/acs.est.3c04340)
424. **Khan, M.I., Yoo, K., Schwab, L., Kümmel, S., Nijenhuis, I.** (2024):
Characterization of anaerobic biotransformation of hexachlorocyclohexanes by novel microbial consortia enriched from channel and river sediments
J. Hazard. Mater. **476**, art. 135198 [10.1016/j.jhazmat.2024.135198](https://doi.org/10.1016/j.jhazmat.2024.135198)
425. **Khan, M.J., Brodie, G., Jurburg, S.D., Chen, Q., Hu, H.-W., Gupta, D., Mattner, S.W., He, J.-Z.** (2024):
Assessing the effects of microwave heat disturbance on soil microbial communities in Australian agricultural environments: A microcosm study
Appl. Soil Ecol. **198**, art. 105386 [10.1016/j.apsoil.2024.105386](https://doi.org/10.1016/j.apsoil.2024.105386)
426. **Khurana, S., Heße, F., Hildebrandt, A., Thullner, M.** (2024):
Microbial mediated carbon and nitrogen cycling in the spatially heterogenous vadose zone: A modeling study
Vadose Zone J. **23** (2), e20315 [10.1002/vzj2.20315](https://doi.org/10.1002/vzj2.20315)
427. **Khurelbaatar, G., Ramos Rodriguez, S.P., Aubron, T., Rahman, K.Z., Khalil, N., van Afferden, M., Breulmann, M., Friesen, J., Müller, R.A.** (2024):
Preliminary planning and optimization approach for wastewater infrastructure for regions with low data availability
Water **16** (5), art. 694 [10.3390/w16050694](https://doi.org/10.3390/w16050694)
428. **Kipping, L., Jehmlich, N., Moll, J., Noll, M., Gossner, M.M., Van Den Bossche, T., Edelmann, P., Borken, W., Hofrichter, M., Kellner, H.** (2024):
Enzymatic machinery of wood-inhabiting fungi that degrade temperate tree species
ISME J. **18** (1), wrac050 [10.1093/ismejo/wrac050](https://doi.org/10.1093/ismejo/wrac050)
429. **Klaes, S., Madan, S., Deobald, D., Cooper, M., Adrian, L.** (2024):
Revealing taxonomy, activity, and substrate assimilation in mixed bacterial communities by GroEL-proteotyping-based stable isotope probing
iScience **27** (12), art. 111249 [10.1016/j.isci.2024.111249](https://doi.org/10.1016/j.isci.2024.111249)
430. **Klähn, S.** (2024):
Natürlicher Inhibitor der Nitritreduktase steuert Nitritsekretion in Cyanobakterien
[Natural inhibitor of nitrite reductase controls nitrite secretion in cyanobacteria]
Biospektrum **30** (4), 423 - 423 [10.1007/s12268-024-2234-6](https://doi.org/10.1007/s12268-024-2234-6)

431. **Klähn, S., Opel, F., Hess, W.R.** (2024):
Customized molecular tools to strengthen metabolic engineering of cyanobacteria
Green Carbon **2** (2), 149 - 163 [10.1016/j.greenca.2024.05.002](https://doi.org/10.1016/j.greenca.2024.05.002)
432. **Klauer, B., Reese, M., Klassert, C.** (2024):
Dürremanagement: Defizite im deutschen Wasserrecht [Drought management: Deficits in German water law]
WasserWirtschaft **114** (9), 48 - 53 [10.1007/s35147-024-2385-x](https://doi.org/10.1007/s35147-024-2385-x)
433. **Klotz, D., Gauch, M., Kratzert, F., Nearing, G., Zscheischler, J.** (2024):
Technical Note: The divide and measure nonconformity – how metrics can mislead when we evaluate on different data partitions
Hydrol. Earth Syst. Sci. **28** (15), 3665 - 3673 [10.5194/hess-28-3665-2024](https://doi.org/10.5194/hess-28-3665-2024)
434. Knapp, J.L.A., **Musolff, A.** (2024):
Concentration-discharge relationships revisited: overused but underutilised?
Hydrol. Process. **38** (11), e15328 [10.1002/hyp.15328](https://doi.org/10.1002/hyp.15328)
435. Knight, C.G., Nicolitch, O., Griffiths, R.I., Goodall, T., Jones, B., Weser, C., Langridge, H., Davison, J., Dellavalle, A., Eisenhauer, N., Gongalsky, K.B., Hector, A., Jardine, E., Kardol, P., Maestre, F.T., **Schädler, M.**, Semchenko, M., Stevens, C., Tsiafouli, M.A., Vilhelmsson, O., Wanek, W., de Vries, F.T. (2024):
Soil microbiomes show consistent and predictable responses to extreme events
Nature **636** (8043), 690 - 696 [10.1038/s41586-024-08185-3](https://doi.org/10.1038/s41586-024-08185-3)
436. Knollová, I., Chytrý, M., Bruelheide, H., Dullinger, S., Jandt, U., Bernhardt-Römermann, M., Biurrun, I., **Roscher, C.**, Rosenthal, G., et al. (2024):
ReSurveyEurope: A database of resurveyed vegetation plots in Europe
J. Veg. Sci. **35** (2), e13235 [10.1111/jvs.13235](https://doi.org/10.1111/jvs.13235)
437. **Kobe, M., Elias, M., Merbach, I., Schädler, M., Bumberger, J., Pause, M., Mollenhauer, H.** (2024):
Automated workflow for high-resolution 4D vegetation monitoring using stereo vision
Remote Sens. **16** (3), art. 541 [10.3390/rs16030541](https://doi.org/10.3390/rs16030541)
438. Koch, S., Liu, H., Lenz, C., Eichler-Löbermann, B., **Vogel, H.-J.**, Lennartz, B. (2024):
Soil structure and solute transport pathways in biogas digestate-amended soils
Soil Tillage Res. **240**, art. 106074 [10.1016/j.still.2024.106074](https://doi.org/10.1016/j.still.2024.106074)
439. **Koedel, U., Dietrich, P., Herrmann, T., Liang, C., Ritter, O., Roettenbacher, J., Schuetze, F.M., Schuetze, S.V., Thoboell, J.C., Schuetze, C.** (2024):
Enhancing citizen science impact in environmental monitoring: Targeted engagement strategies with stakeholder groups
Front. Environ. Sci. **12**, art. 1375675 [10.3389/fenvs.2024.1375675](https://doi.org/10.3389/fenvs.2024.1375675)

440. **Koedel, U.**, Stork, A.L., David, A., Fechner, T. (2024):
Evaluating distributed acoustic sensing for crosswell seismic surveys with helical and linear fibers using conventional P-, SH-, and SV-wave sources
The Leading Edge **43** (11), 716 - 792 [10.1190/tle43110726.1](https://doi.org/10.1190/tle43110726.1)
441. Köhler, A., **Werban, U.**, **Pohle, M.**, Rabiger-Völlmer, J., Schneider, B., Wanger-O'Neill, A., Berg, S., **Dietrich, P.**, Zielhofer, C. (2024):
Determining carbon storage of a complex peat stratigraphy using non- and minimal-invasive geophysical prospection techniques (Verlorener Bach and Loosbach valleys, southern Germany)
Geoderma **452**, art. 117095 [10.1016/j.geoderma.2024.117095](https://doi.org/10.1016/j.geoderma.2024.117095)
442. Köhler, A., **Yadav, P.K.**, Liedl, R., Shil, J.B., Grischek, T., **Dietrich, P.** (2024):
A data-driven approach for simplifying the estimation of time for contaminant plumes to reach their maximum extent
J. Contam. Hydrol. **263**, art. 104336 [10.1016/j.jconhyd.2024.104336](https://doi.org/10.1016/j.jconhyd.2024.104336)
443. Köhler, J., Varga, E., Spahr, S., Gessner, J., Stelzer, K., Brandt, G., **Mahecha, M.D.**, **Kraemer, G.**, Pusch, M., Wolter, C., Monaghan, M.T., Stöck, M., Goldhammer, T. (2024):
Unpredicted ecosystem response to compound human impacts in a European river
Sci. Rep. **14**, art. 16445 [10.1038/s41598-024-66943-9](https://doi.org/10.1038/s41598-024-66943-9)
444. **Köhler, L.**, **Han, S.** (2024):
The driving effect of experience: How perceived frequency of floods and feeling of loss of control are linked to household-level adaptation
Int. J. Disaster Risk Reduct. **112**, art. 104745 [10.1016/j.ijdr.2024.104745](https://doi.org/10.1016/j.ijdr.2024.104745)
445. Köhne, M., Hüsch, R., Tönissen, A., **Schmidt, M.**, Müsken, M., Böttcher, D., Hirnet, J., Plötz, M., Kittler, S., Sieme, H. (2024):
Isolation and characterization of bacteriophages specific to *Streptococcus equi* subspecies *zooepidemicus* and evaluation of efficacy *ex vivo*
Front. Microbiol. **15**, art. 1448958 [10.3389/fmicb.2024.1448958](https://doi.org/10.3389/fmicb.2024.1448958)
446. Köhnke, F., Steuri, B., Baetcke, L., **Borchers, M.**, Brinkmann, T., Dittmeyer, R., Dornheim, M., El Zohbi, J., **Förster, J.**, **Gawel, E.**, Görl, K., Herbst, M., Heß, D., Kalhori, A., **Korte, K.**, Li, Z., **Markus, T.**, Mengis, N., Monnerie, N., Oschlies, A., Prats-Salvado, E., Reusch, T.B.H., Rhoden, I., Sachs, T., **Schaller, R.**, Schill, E., Simon, S., Stevenson, A., **Thoni, T.**, **Thrän, D.**, Xiao, M., Jacob, D. (2024):
A storyline approach: integrating comprehensive, interdisciplinary research results to create narratives – in the context of the net-zero target in Germany
Front. Environ. Sci. **12**, art. 1433491 [10.3389/fenvs.2024.1433491](https://doi.org/10.3389/fenvs.2024.1433491)

447. **Kolditz, O.**, Birkholzer, J.T., Ye, W.-M., Wang, X., Lippmann-Pipke, J. (2024): Clay rocks — characterization of natural and engineered barriers. Introductory editorial to the topical collection
Environ. Earth Sci. **83** (21), art. 610 [10.1007/s12665-024-11908-4](https://doi.org/10.1007/s12665-024-11908-4)
448. **Kolditz, O.**, Hünken, U., **Dietrich, P.** (2024): Sustainable utilization of geosystems: editorial to the topical collection
Environ. Earth Sci. **83** (21), art. 612 [10.1007/s12665-024-11914-6](https://doi.org/10.1007/s12665-024-11914-6)
449. Kolo, I., Brown, C.S., Nibbs, W., Cai, W., Falcone, G., Nagel, T., **Chen, C.** (2024): A comprehensive review of deep borehole heat exchangers (DBHEs): subsurface modelling studies and applications
Geotherm. Energy **12** , art. 19 [10.1186/s40517-024-00297-3](https://doi.org/10.1186/s40517-024-00297-3)
450. Komatsu, K.J., Avolio, M.L., Padullés Cubino, J., Schrod, F., **Auge, H.**, Cavender-Bares, J., Clark, A.T., Flores-Moreno, H., Grman, E., **Harpole, W.S.**, Kattge, J., Kimmel, K., Koerner, S.E., **Korell, L.**, Langley, J.A., Münkemüller, T., Ohlert, T., Onstein, R.E., **Roscher, C.**, Soudzilovskaia, N.A., Taylor, B.N., Tedersoo, L., Terry, R.S., Wilcox, K. (2024): CoRRE Trait Data: A dataset of 17 categorical and continuous traits for 4079 grassland species worldwide
Sci. Data **11** , art. 795 [10.1038/s41597-024-03637-x](https://doi.org/10.1038/s41597-024-03637-x)
451. **Kopinke, F.-D.** (2024): Correspondence on "Effects of temperature and DC electric fields on perfluorooctanoic acid sorption kinetics to activated carbon"
Environ. Sci. Technol. **58** (44), 19902 - 19903 [10.1021/acs.est.4c07601](https://doi.org/10.1021/acs.est.4c07601)
452. **Kopinke, F.-D.** (2024): Comment on “Adsorption of uranium (VI) complexes with polymer-based spherical activated carbon”, published by Y.-A. Boussouga et al. [Water Research 249 (2024) 120825]
Water Res. **261** , art. 122031 [10.1016/j.watres.2024.122031](https://doi.org/10.1016/j.watres.2024.122031)
453. **Kopp, M.**, **Pérez del Pulgar Frowein, C.** (2024): Overestimated environmental benefits of short-term changes in mobility behaviour: The case of Berlin during COVID-19
Sust. Cities Soc. **101** , art. 105137 [10.1016/j.scs.2023.105137](https://doi.org/10.1016/j.scs.2023.105137)
454. Kopp, M., Petit-Boix, A., **Leipold, S.** (2024): Municipal circular economy indicators: Do they measure the cities' environmental ambitions?
Sustain. Prod. Consump. **50** , 431 - 444 [10.1016/j.spc.2024.08.009](https://doi.org/10.1016/j.spc.2024.08.009)

455. **Korell, L., Andrzejak, M., Berger, S., Durka, W.,** Haider, S., Hensen, I., **Herion, Y., Höfner, J.,** Kindermann, L., **Klotz, S., Knight, T.M.,** Linstädter, A., **Madaj, A.-M., Merbach, I., Michalski, S.,** Plos, C., **Roscher, C., Schädler, M.,** Welk, E., **Auge, H.** (2024):
Land use modulates resistance of grasslands against future climate and inter-annual climate variability in a large field experiment
Glob. Change Biol. **30** (7), e17418 [10.1111/gcb.17418](https://doi.org/10.1111/gcb.17418)
456. **Koschorreck, M., Kamjunke, N., Koedel, U., Rode, M., Schuetze, C.,** Bussmann, I. (2024):
Diurnal versus spatial variability of greenhouse gas emissions from an anthropogenically modified lowland river in Germany
Biogeosciences **21** (6), 1613 - 1628 [10.5194/bg-21-1613-2024](https://doi.org/10.5194/bg-21-1613-2024)
457. **Kotze, S., Ebert, A., Goss, K.-U.** (2024):
Effects of aqueous boundary layers and paracellular transport on the efflux ratio as a measure for active transport across cell layers
Pharmaceutics **16** (1), art. 132 [10.3390/pharmaceutics16010132](https://doi.org/10.3390/pharmaceutics16010132)
458. **Kotze, S., Goss, K.-U., Ebert, A.** (2024):
The pH-dependence of efflux ratios determined with bidirectional transport assays across cellular monolayers
Int. J. Pharm. **8** , art. 100269 [10.1016/j.ijpx.2024.100269](https://doi.org/10.1016/j.ijpx.2024.100269)
459. Kowaltowski, D.C.C.K., Gomes da Silva, V., Van Oel, C., Granja, A.D., Muianga, E.A.D., **Kabisch, S.,** De Carvalho Moreira, D., Koolwijk, J.S.J., **Pöbneck, J.,** Tzortzopoulos, P.T., Soliman Jr, J., Bridi, M.E., Freeke, A. (2024):
Living labs for user empowerment and value delivery in social housing upgrading processes
Habitat Int. **145** , art. 103019 [10.1016/j.habitatint.2024.103019](https://doi.org/10.1016/j.habitatint.2024.103019)
460. Krambeck, C., **Römerscheid, M., Paschke, A.** (2024):
Passive sampling of herbicides above sediments at sites with losses of submerged macrophytes in a mesotrophic lake
Sci. Total Environ. **912** , art. 169083 [10.1016/j.scitotenv.2023.169083](https://doi.org/10.1016/j.scitotenv.2023.169083)
461. **Kramer, L., Schulze, T., Klüver, N., Altenburger, R., Hackermüller, J., Krauss, M., Busch, W.** (2024):
Curated mode-of-action data and effect concentrations for chemicals relevant for the aquatic environment
Sci. Data **11** , art. 60 [10.1038/s41597-023-02904-7](https://doi.org/10.1038/s41597-023-02904-7)

462. Kratzert, F., Gauch, M., **Klotz, D.**, Nearing, G. (2024):
HESS Opinions: Never train a Long Short-Term Memory (LSTM) network on a single basin
Hydrol. Earth Syst. Sci. **28** (17), 4187 - 4201 [10.5194/hess-28-4187-2024](https://doi.org/10.5194/hess-28-4187-2024)
463. Krause, J.L., **Engelmann, B.**, Lallinger, D.J.D., **Rolle-Kampczyk, U.**, von Bergen, M., Chang, H.-D. (2024):
Multi-omics analysis unravels the impact of stool sample logistics on metabolites and microbial composition
Microorganisms **12** (10), art. 1998 [10.3390/microorganisms12101998](https://doi.org/10.3390/microorganisms12101998)
464. **Krause, J.L., Engelmann, B., Schaepe, S.S., Rolle-Kampczyk, U., Jehmlich, N., Chang, H.-D., Slanina, U., Hoffmann, M., Lehmann, J., Zenclussen, A.C., Herberth, G., von Bergen, M., Haange, S.-B.** (2024):
DSS treatment does not affect murine colonic microbiota in absence of the host
Gut Microbes **16** (1), art. 2297831 [10.1080/19490976.2023.2297831](https://doi.org/10.1080/19490976.2023.2297831)
465. **Krauss, M., Huber, C., Schulze, T.**, Bartel-Steinbach, M., Weber, T., Kolossa-Gehring, M., Lermen, D. (2024):
Assessing background contamination of sample tubes used in human biomonitoring by non-targeted liquid chromatography–high resolution mass spectrometry
Environ. Int. **138**, art. 108426 [10.1016/j.envint.2024.108426](https://doi.org/10.1016/j.envint.2024.108426)
466. **Krausser, K., Howanski, J., Fink, B., Bauer, M., Fischer, F., Zenclussen, A.C., Schumacher, A.** (2024):
Benzophenone-3 as endocrine-disrupting chemical does not seem to affect the human decidualization process in an in vitro setting
Reprod. Sci. **31** (1 Suppl.), 264A - 264A [10.1007/s43032-024-01501-2](https://doi.org/10.1007/s43032-024-01501-2)
467. **Krieger, E., Kretschmer, T., Howanski, J., Fink, B., Bauer, M., Fischer, F., Schumacher, A., Zenclussen, A.C.** (2024):
The combined influence of the endocrine disrupting chemicals bisphenol A and benzophenone-3 on follicular maturation and immune cell populations in the ovaries of offspring exposed in utero and during lactation
Reprod. Sci. **31** (1 Suppl.), 265A - 265A [10.1007/s43032-024-01501-2](https://doi.org/10.1007/s43032-024-01501-2)
468. Krupčíková, S., Stiborek, M., Kalousková, P., Urík, J., Šimek, Z., Melymuk, L., **Muz, M.**, Vrana, B. (2024):
Investigation of occurrence of aromatic amines in municipal wastewaters using passive sampling
Sci. Total Environ. **939**, art. 173196 [10.1016/j.scitotenv.2024.173196](https://doi.org/10.1016/j.scitotenv.2024.173196)
469. **Kühn, E., Harpke, A., Schmitt, T., Settele, J., Kühn, I.** (2024):
Counting butterflies - are old-fashioned ways of recording data obsolete?
J. Insect Conserv. **28**, 577 - 588 [10.1007/s10841-024-00577-0](https://doi.org/10.1007/s10841-024-00577-0)

470. **Kühne, R.,** Hilscherová, K., Smutna, M., **Leßmöllmann, F., Schüürmann, G.** (2024):
In silico bioavailability triggers applied to direct and indirect thyroid hormone disruptors
Chemosphere **348** , art. 140611 [10.1016/j.chemosphere.2023.140611](https://doi.org/10.1016/j.chemosphere.2023.140611)
471. **Kühnel, D.,** Krug, H.F., Steinbach, C., Nau, K. (2024):
The DaNa projects: public communication of (nano)material safety data - from
conspiracy theories to study quality
Front. Toxicol. **6** , art. 1382458 [10.3389/ftox.2024.1382458](https://doi.org/10.3389/ftox.2024.1382458)
472. **Kuntz, V., Zahn, D., Reemtsma, T.** (2024):
Quantification and occurrence of 39 tire-related chemicals in urban and rural aerosol from
Saxony, Germany
Environ. Int. **194** , art. 109189 [10.1016/j.envint.2024.109189](https://doi.org/10.1016/j.envint.2024.109189)
473. Kurgiy, K., Achtziger-Zupančič, P., Bjorge, M., Boxberg, M.S., Broggi, M., **Buchwald, J.,** Ernst, O.G., Flügge, J., Ganopolski, A., Graf, T., Kortenbruck, P., Kowalski, J., Kreye, P., Kukla, P., Mayr, S., Miro, S., Nagel, T., Nowak, W., Oladyshkin, S., Renz, A., Rienäcker-Burschil, J., Röhligh, K.-J., Sträter, O., Thiedau, J., Wagner, F., Wellmann, F., Wengler, M., Wolf, J., Rühaak, W. (2024):
Uncertainties and robustness with regard to the safety of a repository for high-level
radioactive waste: introduction of a research initiative
Environ. Earth Sci. **83** , art. 82 [10.1007/s12665-023-11346-8](https://doi.org/10.1007/s12665-023-11346-8)
474. Kuschik-Maczollek, N., Glock, M., Schmitz, M., Hollert, H., **Krauss, M., Piotrowska, A., Brack, W.,** Oehlmann, J. (2024):
In vitro effect-based monitoring of water, sediment and soil from a floodplain restoration
site in Central Europe
Environ. Sci. Eur. **36** , art. 119 [10.1186/s12302-024-00939-0](https://doi.org/10.1186/s12302-024-00939-0)
475. **Lai, B.** (2024):
Burning questions: Exploring the limits of microbial electrochemical technology for
industrial biotechnological applications
Microb. Biotechnol. **17** (1), e14370 [10.1111/1751-7915.14370](https://doi.org/10.1111/1751-7915.14370)
476. Lakševics, K., Franz, Y., **Haase, A.,** Nasya, B., Patti, D., Reeger, U., Raubiško, I., **Schmidt, A.,** Šuvajevs, A. (2024):
The permanent regime of temporary solutions: Housing of forced migrants in Europe as a
policy challenge
Eur. Urban Reg. Stud. **31** (1), 81 - 87 [10.1177/09697764231197963](https://doi.org/10.1177/09697764231197963)
477. Lamoree, M., Margalef, M., Vinggaard, A.M., **Escher, B.I.,** Antignac, J.-P., Hamers, T. (2024):
Effect-directed analysis for determination of chemical mixture drivers in environmental
and human samples
Toxicol. Lett. **399** (Suppl. 2), S12 [10.1016/j.toxlet.2024.07.042](https://doi.org/10.1016/j.toxlet.2024.07.042)

478. Lange, D.F., Schröter, S.A., da Luz, F.M., Pires, E., Santos, Y.R., da Silva, J.S., Hildmann, S., Hoffmann, T., Ferreira, S.J.F., Schäfer, T., Quesada, C.A., **Simon, C.**, Gleixner, G. (2024):
Cycling of dissolved organic nutrients and indications for nutrient limitations in contrasting Amazon rainforest ecosystems
Biogeochemistry **167** (12), 1567 - 1588 [10.1007/s10533-024-01187-3](https://doi.org/10.1007/s10533-024-01187-3)
479. Lange, M., Azizi-Rad, M., Dittmann, G., Lange, D.F., Orme, A.M., Schroeter, S.A., **Simon, C.**, Gleixner, G. (2024):
Stability and carbon uptake of the soil microbial community is determined by differences between rhizosphere and bulk soil
Soil Biol. Biochem. **189**, art. 109280 [10.1016/j.soilbio.2023.109280](https://doi.org/10.1016/j.soilbio.2023.109280)
480. **Lange, M., Preidl, S., Reichmuth, A.**, Heurich, M., **Doktor, D.** (2024):
A continuous tree species-specific reflectance anomaly index reveals declining forest condition between 2016 and 2022 in Germany
Remote Sens. Environ. **312**, art. 114323 [10.1016/j.rse.2024.114323](https://doi.org/10.1016/j.rse.2024.114323)
481. **Langer, L.**, Burghardt, M., Borgards, R., Richter, R., Wirth, C. (2024):
The relation between biodiversity in literature and social and spatial situation of authors: Reflections on the nature–culture entanglement
People Nat. **6** (1), 54 - 74 [10.1002/pan3.10551](https://doi.org/10.1002/pan3.10551)
482. Laurent, M., Bougeard, S., Caradec, L., Ghestem, F., Albrecht, M., Brown, M.J.F., De Miranda, J., Karise, R., Knapp, J., Serrano, J., Potts, S.G., Rundlöf, M., Schwarz, J., Attridge, E., Babin, A., Bottero, I., Cini, E., De la Rúa, P., di Prisco, G., **Dominik, C.**, Dzul, D., García Reina, A., Hodge, S., Klein, A.M., Knauer, A., Mand, M., Martínez López, V., Serra, G., Pereira-Peixoto, H., Raimets, R., **Schweiger, O.**, Senapathi, D., Stout, J.C., Tamburini, G., Costa, C., Kiljanek, T., Martel, A.-C., Le, S., Chauzat, M.-P. (2024):
Novel indices reveal that pollinator exposure to pesticides varies across biological compartments and crop surroundings
Sci. Total Environ. **927**, art. 172118 [10.1016/j.scitotenv.2024.172118](https://doi.org/10.1016/j.scitotenv.2024.172118)
483. **Lausch, A.**, Bannehr, L., Berger, S.A., Borg, E., **Bumberger, J.**, Hacker, J.M., Heege, T., Hupfer, M., Jung, A., Kuhwald, K., Oppelt, N., Pause, M., Schrod, F., **Selsam, P.**, von Trentini, F., Vohland, M., Glässer, C. (2024):
Monitoring water diversity and water quality with remote sensing and traits
Remote Sens. **16** (13), art. 2425 [10.3390/rs16132425](https://doi.org/10.3390/rs16132425)
484. **Lausch, A., Selsam, P., Pause, M., Bumberger, J.** (2024):
Monitoring vegetation- and geodiversity with remote sensing and traits
Philos. Trans. R. Soc. A-Math. Phys. Eng. Sci. **382** (2269), art. 20230058 [10.1098/rsta.2023.0058](https://doi.org/10.1098/rsta.2023.0058)

485. Le, A.V., **Muehe, E.M.**, Bone, S., **Drabesch, S.**, Fischer, S., Kappler, A. (2024):
Field and laboratory evidence for manganese redox cycling controlling iron and arsenic retention in household sand filters
ACS ES&T Water **4** (1), 33 - 43 [10.1021/acsestwater.3c00245](https://doi.org/10.1021/acsestwater.3c00245)
486. Le Noir de Carlan, C., Kaarlejärvi, E., De Tender, C., Heinecke, T., **Eskelinen, A.**, Verbruggen, E. (2024):
Shifts in mycorrhizal types of fungi and plants in response to fertilisation, warming and herbivory in a tundra grassland
New Phytol. **243** (3), 1190 - 1204 [10.1111/nph.19816](https://doi.org/10.1111/nph.19816)
487. **Lechtenfeld, O.J.**, **Kaesler, J.**, **Jennings, E.K.**, Koch, B.P. (2024):
Direct analysis of marine dissolved organic matter using LC-FT-ICR MS
Environ. Sci. Technol. **58** (10), 4637 - 4647 [10.1021/acs.est.3c07219](https://doi.org/10.1021/acs.est.3c07219)
488. **Lee, J.**, **König, M.**, **Braun, G.**, **Escher, B.I.** (2024):
Water quality monitoring with the multiplexed assay MitoOxTox for mitochondrial toxicity, oxidative stress response, and cytotoxicity in AREc32 cells
Environ. Sci. Technol. **58** (13), 5716 - 5726 [10.1021/acs.est.3c09844](https://doi.org/10.1021/acs.est.3c09844)
489. Lee, R., White, C.J., Adnan, M.S.G., Douglas, J., Mahecha, M.D., O'Loughlin, F.E., Patelli, E., Ramos, A.M., Roberts, M.J., Martius, O., Tubaldi, E., van den Hurk, B., Ward, P.J., **Zscheischler, J.** (2024):
Reclassifying historical disasters: From single to multi-hazards
Sci. Total Environ. **912**, art. 169120 [10.1016/j.scitotenv.2023.169120](https://doi.org/10.1016/j.scitotenv.2023.169120)
490. **Lehmann, C.**, **Bilke, L.**, **Buchwald, J.**, **Graebeling, N.**, **Grunwald, N.**, **Heinze, J.**, **Meisel, T.**, **Lu, R.**, **Naumov, D.**, **Rink, K.**, **Sen, Ö.O.**, **Selzer, P.**, **Shao, H.**, **Wang, W.**, **Zill, F.**, **Nagel, T.**, **Kolditz, O.** (2024):
OpenWorkflow — Development of an open-source synthesis-platform for safety investigations in the site selection process
Grundwasser **29** (1), 31 - 47 [10.1007/s00767-024-00566-9](https://doi.org/10.1007/s00767-024-00566-9)
491. **Lehmann, P.**, **Gawel, E.**, **Meier, J.-N.**, **Reda, M.J.**, **Reutter, F.**, Sommer, S. (2024):
Spatial distributive justice has many faces: The case of siting renewable energy infrastructures
Energy Res. Soc. Sci. **118**, art. 103769 [10.1016/j.erss.2024.103769](https://doi.org/10.1016/j.erss.2024.103769)
492. **Lehmann, P.**, **Tafarte, P.** (2024):
Exclusion zones for renewable energy deployment: One man's blessing, another man's curse
Resour. Energy Econ. **76**, art. 101419 [10.1016/j.reseneeco.2023.101419](https://doi.org/10.1016/j.reseneeco.2023.101419)

493. **Lehneis, R., Harnisch, F., Thrän, D.** (2024):
Electricity production landscape of run-of-river power plants in Germany
Resources **13** (12), art. 174 [10.3390/resources13120174](https://doi.org/10.3390/resources13120174)
494. **Lehneis, R., Thrän, D.** (2024):
In 50 shades of orange: Germany's photovoltaic power generation landscape
Energies **17** (16), art. 3871 [10.3390/en17163871](https://doi.org/10.3390/en17163871)
495. **Leipold, S., Luo, A., Simoens, M., Helander, H., Petit-Boix, A.** (2024):
Can we talk? Disrupting science circles with narrative-led dialogs
Environ. Sci. Policy **153**, art. 103683 [10.1016/j.envsci.2024.103683](https://doi.org/10.1016/j.envsci.2024.103683)
496. Leisenheimer, L., Wellmann, T., Jänicke, C., **Haase, D.** (2024):
Monitoring drought impacts on street trees using remote sensing - Disentangling temporal and species-specific response patterns with Sentinel-2 imagery
Ecol. Inform. **82**, art. 102659 [10.1016/j.ecoinf.2024.102659](https://doi.org/10.1016/j.ecoinf.2024.102659)
497. Lembo, V., Bordoni, S., **Bevacqua, E.**, Domeisen, D.I.V., Franzke, C.L.E., Galfi, V.M., Garfinkel, C.I., Grams, C.M., Hochman, A., Jha, R., Kornhuber, K., Kwasniok, F., Lucarini, V., Messori, G., Pappert, D., Perez-Fernandez, I., Riboldi, J., Russo, E., Shaw, T.A., Strigunova, I., Strnad, F., Yiou, P., Zagar, N. (2024):
Dynamics, statistics, and predictability of Rossby waves, heat waves, and spatially compounding extreme events
Bull. Amer. Meteorol. Soc. **105** (12), E2283 - E2293 [10.1175/BAMS-D-24-0145.1](https://doi.org/10.1175/BAMS-D-24-0145.1)
498. **Lennartz, S., Byrne, H.A., Kümmel, S., Krauss, M., Nowak, K.M.** (2024):
Hydrogen isotope labeling unravels origin of soil-bound organic contaminant residues in biodegradability testing
Nat. Commun. **15**, art. 9178 [10.1038/s41467-024-53478-w](https://doi.org/10.1038/s41467-024-53478-w)
499. Lennon, S., Chaker, J., Price, E.J., Hollender, J., **Huber, C.**, Schulze, T., Ahrens, L., Béen, F., Creusot, N., Debrauwer, L., Dervilly, G., Gabriel, C., Guérin, T., Habchi, B., Jamin, E.L., Klánová, J., Kosjek, T., Le Bizec, B., Meijer, J., Mol, H., Nijssen, R., Oberacher, H., Papaioannou, N., Parinet, J., Sarigiannis, D., Stravs, M.A., Tkalec, Ž., Schymanski, E.L., Lamoree, M., Antignac, J.-P., David, A. (2024):
Harmonized quality assurance/quality control provisions to assess completeness and robustness of MS1 data preprocessing for LC-HRMS-based suspect screening and non-targeted analysis
Trac-Trends Anal. Chem. **174**, art. 117674 [10.1016/j.trac.2024.117674](https://doi.org/10.1016/j.trac.2024.117674)
500. Leone, M., Gentile, F., Lo Porto, A., Ricci, G.F., **Schürz, C., Strauch, M., Volk, M., De Girolamo, A.M.** (2024):
Setting an environmental flow regime under climate change in a data-limited Mediterranean basin with temporary river
J. Hydrol. Reg. Stud. **52**, art. 101698 [10.1016/j.ejrh.2024.101698](https://doi.org/10.1016/j.ejrh.2024.101698)

501. Lewartowska, E., Anguelovski, I., Oscilowicz, E., Triguero-Mas, M., Cole, H., Shokry, G., **Pérez-del-Pulgar, C.**, Connolly, J.J.T. (2024): Racial inequity in green infrastructure and gentrification: Challenging compounded environmental racisms in the green city
Int. J. Urban Reg. Res. **48** (2), 294 - 322 [10.1111/1468-2427.13232](https://doi.org/10.1111/1468-2427.13232)
502. Li, D., **Zscheischler, J.**, Chen, Y., Yin, B., Feng, J., Freund, M., Qi, J., Zhu, Y., **Bevacqua, E.** (2024): Intensification and poleward shift of compound wind and precipitation extremes in a warmer climate
Geophys. Res. Lett. **51** (11), e2024GL110135 [10.1029/2024GL110135](https://doi.org/10.1029/2024GL110135)
503. Li, J., Zhang, Y., **Bevacqua, E.**, **Zscheischler, J.**, Keenan, T.F., Lian, X., Zhou, S., Zhang, H., He, M., Piao, S. (2024): Future increase in compound soil drought-heat extremes exacerbated by vegetation greening
Nat. Commun. **15** , art. 10875 [10.1038/s41467-024-55175-0](https://doi.org/10.1038/s41467-024-55175-0)
504. **Li, P.**, Zha, Y., Zhang, Y., Tso, C.-H.M., **Attinger, S.**, **Samaniego, L.**, **Peng, J.** (2024): Deep learning integrating scale conversion and pedo-transfer function to avoid potential errors in cross-scale transfer
Water Resour. Res. **60** (3), e2023WR035543 [10.1029/2023WR035543](https://doi.org/10.1029/2023WR035543)
505. Li, R., Luo, Y., Li, Y., Zhu, X., Zhang, J., **Wang, Z.**, **Yang, W.**, Li, H. (2024): Synergistic reduction in air pollutants and health benefits under China's dual-carbon policy
Environ. Sci. Technol. **58** (22), 9467 - 9470 [10.1021/acs.est.4c03073](https://doi.org/10.1021/acs.est.4c03073)
506. Li, R., Luo, Y., Zhu, X., Zhang, J., **Wang, Z.**, **Yang, W.**, Li, Y., Li, H. (2024): Anthropogenic impacts on polycyclic aromatic hydrocarbons in surface water: Evidence from the COVID-19 lockdown
Water Res. **262** , art. 122143 [10.1016/j.watres.2024.122143](https://doi.org/10.1016/j.watres.2024.122143)

507. Li, S., Spitz, N., Ghantous, A., Abrishamcar, S., Reimann, B., Marques, I., Silver, M.J., Aguilar-Lacasaña, S., Kitaba, N., Rezwan, F.I., **Röder, S.**, Sirignano, L., Tuhkanen, J., Mancano, G., Sharp, G.C., Metayer, C., Morimoto, L., Stein, D.J., Zar, H.J., Alfano, R., Nawrot, T., Wang, C., Kajantie, E., Keikkala, E., Mustaniemi, S., Ronkainen, J., Sebert, S., Silva, W., Vääräsmäki, M., Jaddoe, V.W.V., Bernstein, R.M., Prentice, A.M., Cosin-Tomas, M., Dwyer, T., Håberg, S.E., Herceg, Z., Magnus, M.C., Munthe-Kaas, M.C., Page, C.M., Völker, M., Gilles, M., Send, T., Witt, S., Zillich, L., Gagliardi, L., Richiardi, L., Czamara, D., Räikkönen, K., Chatzi, L., Vafeiadi, M., Arshad, S.H., Ewart, S., Plusquin, M., Felix, J.F., Moore, S.E., Vrijheid, M., Holloway, J.W., Karmaus, W., **Herberth, G.**, **Zenclussen, A.**, Streit, F., Lahti, J., Hüls, A., Hoang, T.T., London, S.J., Wiemels, J.L. (2024):
A Pregnancy and Childhood Epigenetics Consortium (PACE) meta-analysis highlights potential relationships between birth order and neonatal blood DNA methylation
Commun. Biol. **7** , art. 66 [10.1038/s42003-023-05698-x](https://doi.org/10.1038/s42003-023-05698-x)
508. **Li, W.**, **Nguyen, V.T.**, Cheng, X., Zhu, D., **Kumar, R.** (2024):
Toward representing the subsurface nitrate legacy through a coupled StorAge selection function and hydrological model (SWAT-SAS)
J. Hydrol. **637** , art. 131386 [10.1016/j.jhydrol.2024.131386](https://doi.org/10.1016/j.jhydrol.2024.131386)
509. Li, X., **Bei, Q.**, Nematabad, M.R., Peng, J., Liesack, W. (2024):
Time-shifted expression of acetoclastic and methylotrophic methanogenesis by a single *Methanosarcina* genomospecies predominates the methanogen dynamics in Philippine rice field soil
Microbiome **12** , art. 39 [10.1186/s40168-023-01739-z](https://doi.org/10.1186/s40168-023-01739-z)
510. Li, Z., Kravchenko, A.N., Cupples, A., Guber, A.K., Kuzyakov, Y., Robertson, G.P., **Blagodatskaya, E.** (2024):
Composition and metabolism of microbial communities in soil pores
Nat. Commun. **15** , art. 3578 [10.1038/s41467-024-47755-x](https://doi.org/10.1038/s41467-024-47755-x)
511. **Liebmann, L.**, Schreiner, V.C., Vormeier, P., Weisner, O., **Liess, M.** (2024):
Combined effects of herbicides and insecticides reduce biomass of sensitive aquatic invertebrates
Sci. Total Environ. **946** , art. 174343 [10.1016/j.scitotenv.2024.174343](https://doi.org/10.1016/j.scitotenv.2024.174343)
512. **Ließ, M.**, Sakhaee, A. (2024):
Deep learning with a multi-task convolutional neural network to generate a national-scale 3D soil data product: The particle size distribution of the German agricultural soil landscape
Agriculture-Basel **14** (8), art. 1230 [10.3390/agriculture14081230](https://doi.org/10.3390/agriculture14081230)

513. **Liess, M., Gröning, J.** (2024):
Latent pesticide effects and their mechanisms
Sci. Total Environ. **909** , art. 168368 [10.1016/j.scitotenv.2023.168368](https://doi.org/10.1016/j.scitotenv.2023.168368)
514. Linssen, R., de Smit, S., **Röhring, K., Harnisch, F., ter Heijne, A.** (2024):
Revealing cellular (poly)sulphide storage in electrochemically active sulphide oxidising bacteria using rotating disc electrodes
Bioelectrochemistry **158** , art. 108710 [10.1016/j.bioelechem.2024.108710](https://doi.org/10.1016/j.bioelechem.2024.108710)
515. **Lisiecka, N.,** Parus, A., Simpson, M., Kloziński, A., Zembrzuska, J., Frankowski, R., Zgoła-Grześkowiak, A., Woźniak-Karczewska, M., Siwińska-Ciesielczyk, K., Niemczak, M., Sandomierski, M., **Eberlein, C., Heipieper, H.J., Chrzanowski, Ł.** (2024):
Unraveling the effects of acrylonitrile butadiene styrene (ABS) microplastic ageing on the sorption and toxicity of ionic liquids with 2,4-D and glyphosate herbicides
Chemosphere **364** , art. 143271 [10.1016/j.chemosphere.2024.143271](https://doi.org/10.1016/j.chemosphere.2024.143271)
516. **Lisiecka, N.,** Woźniak-Karczewska, M., Parus, A., Simpson, M., Frankowski, R., Zgoła-Grześkowiak, A., Siwińska-Ciesielczyk, K., Niemczak, M., **Eberlein, C., Heipieper, H.J., Chrzanowski, Ł.** (2024):
Effect of microplastic on sorption, toxicity, and mineralization of 2,4-dichlorophenoxyacetic acid ionic liquids
Appl. Microbiol. Biotechnol. **108** , art. 523 [10.1007/s00253-024-13353-6](https://doi.org/10.1007/s00253-024-13353-6)
517. Liu, B., Wang, J., Li, H., Liu, J., Wang, P., Cai, W., Sun, X., **Chen, C.** (2024):
In-situ test and numerical investigation on the long-term performance of deep borehole heat exchanger coupled heat pump heating system
Case Stud. Therm. Eng. **61** , art. 104855 [10.1016/j.csite.2024.104855](https://doi.org/10.1016/j.csite.2024.104855)
518. **Liu, Q.,** Eisenhauer, N., Scheu, S., Angst, G., Bücker, M., Huang, Y., Meador, T.B., **Schädler, M.** (2024):
Climate-dependent plant responses to earthworms in two land-use types
Oecologia **204** , 133 - 146 [10.1007/s00442-023-05493-9](https://doi.org/10.1007/s00442-023-05493-9)
519. **Liu, Q.,** Guo, H., Zhang, J., **Li, S.,** Li, J., Yao, F., **Mahecha, M.D., Peng, J.** (2024):
Global assessment of terrestrial productivity in response to water stress
Sci. Bull. **69** (15), 2352 - 2356 [10.1016/j.scib.2024.05.033](https://doi.org/10.1016/j.scib.2024.05.033)
520. Liu, X., **Akay, C., Köpke, J., Kümmel, S., Richnow, H.H.,** Imfeld, G. (2024):
Direct phototransformation of sulfamethoxazole characterized by four-dimensional element compound specific isotope analysis
Environ. Sci. Technol. **58** (23), 10322 - 10333 [10.1021/acs.est.4c02666](https://doi.org/10.1021/acs.est.4c02666)

521. **Liu, X., Kümmel, S., Wu, L., Richnow, H.H.** (2024):
Tracking the transformation of persistent organic pollutants in food webs using multi element isotope and enantiomer fractionation
J. Hazard. Mater. **469** , art. 134046 [10.1016/j.jhazmat.2024.134046](https://doi.org/10.1016/j.jhazmat.2024.134046)
522. **Liu, X., Zhang, J., Richnow, H.H., Imfeld, G.** (2024):
Novel stable isotope concepts to track antibiotics in wetland systems
J. Environ. Sci. **146** , 298 - 303 [10.1016/j.jes.2024.02.005](https://doi.org/10.1016/j.jes.2024.02.005)
523. **Liu, Y., Dunker, S., Durka, W., Dominik, C., Heuschele, J.M., Honchar, H., Hoffmann, P., Musche, M., Paxton, R.J., Settele, J., Schweiger, O.** (2024):
Eco-evolutionary processes shaping floral nectar sugar composition
Sci. Rep. **14** , art. 13856 [10.1038/s41598-024-64755-5](https://doi.org/10.1038/s41598-024-64755-5)
524. **Liu, Y., Rohwerder, T., Bonatelli, M.L., von Postel, T., Kleinstein, S., Adrian, L., Ding, C.** (2024):
A novel sulfatase for acesulfame degradation in wastewater treatment plants as evidenced from *Shinella* strains
Environ. Sci. Technol. **58** (42), 18892 - 18902 [10.1021/acs.est.4c02283](https://doi.org/10.1021/acs.est.4c02283)
525. **Liu, Y., Yoshioka, K., You, T., Li, H., Zhang, F.** (2024):
A phase-field fracture model in thermo-poro-elastic media with micromechanical strain energy degradation
Comput. Meth. Appl. Mech. Eng. **429** , art. 117165 [10.1016/j.cma.2024.117165](https://doi.org/10.1016/j.cma.2024.117165)
526. **Löffler, M., Schwab, L., Dethlefsen, F., Lagmöller, L., Vogt, C., Richnow, H.-H.** (2024):
Anaerobic dihydrogen consumption of nutrient-limited aquifer sediment microbial communities examined by stable isotope analysis
Isot. Environ. Health Stud. **60** (2), 103 - 121 [10.1080/10256016.2024.2306146](https://doi.org/10.1080/10256016.2024.2306146)
527. **Lorenz, M., Maskow, T., Thiele-Bruhn, S.** (2024):
Energy stored in soil organic matter is influenced by litter quality and the degree of transformation – A combustion calorimetry study
Geoderma **443** , art. 116846 [10.1016/j.geoderma.2024.116846](https://doi.org/10.1016/j.geoderma.2024.116846)
528. **Loritz, R., Dolich, A., Acuña Espinoza, E., Ebeling, P., Guse, B., Götze, J., Hassler, S.K., Hauffe, C., Heidbüchel, I., Kiesel, J., Mälicke, M., Müller-Thomy, H., Stölzle, M., Tarasova, L.** (2024):
CAMELS-DE: hydro-meteorological time series and attributes for 1582 catchments in Germany
Earth Syst. Sci. Data **16** (12), 5625 - 5642 [10.5194/essd-16-5625-2024](https://doi.org/10.5194/essd-16-5625-2024)

529. Loritz, R., Wu, C.H., **Klotz, D.**, Gauch, M., Kratzert, F., Bassiouni, M. (2024):
Generalizing tree-level sap flow across the European continent
Geophys. Res. Lett. **51** (6), e2023GL107350 [10.1029/2023GL107350](https://doi.org/10.1029/2023GL107350)
530. Lu, C., Leng, G., Liao, X., Tu, H., Qiu, J., Li, J., Huang, S., **Peng, J.** (2024):
In-season maize yield prediction in Northeast China: The phase-dependent benefits of
assimilating climate forecast and satellite observations
Agric. For. Meteorol. **358**, art. 110242 [10.1016/j.agrformet.2024.110242](https://doi.org/10.1016/j.agrformet.2024.110242)
531. **Lucas, M.**, Rohe, L., **Apelt, B.**, Stange, C.F., **Vogel, H.-J.**, Well, R., **Schlüter, S.** (2024):
The distribution of particulate organic matter in the heterogeneous soil matrix –
Balancing between aerobic respiration and denitrification
Sci. Total Environ. **951**, art. 175383 [10.1016/j.scitotenv.2024.175383](https://doi.org/10.1016/j.scitotenv.2024.175383)
532. Lucas, M.S., Hensen, I., Barratt, C.D., Callaway, R.M., **Durka, W.**, Lekberg, Y., Nagy,
D.U., Onstein, R.E., Shah, M.A., van Dam, N.M., Thoma, A.E., Rosche, C. (2024):
Re-focusing sampling, design and experimental methods to assess rapid evolution by
non-native plant species
Biol. Invasions **26** (5), 1327 - 1343 [10.1007/s10530-024-03249-x](https://doi.org/10.1007/s10530-024-03249-x)
533. **Luckenbach, T.**, **Burkhardt-Medicke, K.** (2024):
Differing temperature dependencies of functional homologs zebrafish Abcb4 and human
ABCB1
Front. Pharmacol. **15**, art. 1426040 [10.3389/fphar.2024.1426040](https://doi.org/10.3389/fphar.2024.1426040)
534. **Ludwig, A.**, **Doktor, D.**, **Feilhauer, H.** (2024):
Is spectral pixel-to-pixel variation a reliable indicator of grassland biodiversity? A
systematic assessment of the spectral variation hypothesis using spatial simulation
experiments
Remote Sens. Environ. **302**, art. 113988 [10.1016/j.rse.2023.113988](https://doi.org/10.1016/j.rse.2023.113988)
535. Luo, J., Huang, S., Wang, Y., Singh, V.P., Liu, J., Huang, Q., Leng, G., Li, J., Wu,
H., Zheng, X., Guo, W., Lin, X., **Peng, J.** (2024):
Land-atmosphere and ocean-atmosphere couplings dominate the dynamics of agricultural
drought predictability in the Loess Plateau, China
J. Hydrol. **645, Part B**, art. 132225 [10.1016/j.jhydrol.2024.132225](https://doi.org/10.1016/j.jhydrol.2024.132225)
536. Lüth, S., Steegborn, F., Heberling, F., Beilecke, T., Bosbach, D., Deissmann, G.,
Geckeis, H., Joseph, C., Liebscher, A., Metz, V., Rebscher, D., **Rink, K.**, Ryberg, T.,
Schennen, S. (2024):
Characterization of heterogeneities in the sandy facies of the Opalinus Clay (Mont Terri
underground rock laboratory, Switzerland)
Geophys. J. Int. **236** (3), 1342 - 1359 [10.1093/gji/ggad494](https://doi.org/10.1093/gji/ggad494)

537. Lyche Solheim, A., Gundersen, V., Mischke, U., Skjelbred, B., Nejstgaard, J.C., Guislain, A.L.N., Sperfeld, E., Giling, D.P., Haande, S., Ballot, A., Moe, S.J., Stephan, S., Walles, T.J.W., Jechow, A., Minguez, L., Ganzert, L., **Hornick, T.**, Hansson, T.H., Stratmann, C.N., Järvinen, M., Drakare, S., Carvalho, L., Grossart, H.-P., Gessner, M.O., Berger, S.A. (2024):
Lake browning counteracts cyanobacteria responses to nutrients: Evidence from phytoplankton dynamics in large enclosure experiments and comprehensive observational data
Glob. Change Biol. **30** (1), e17013 [10.1111/gcb.17013](https://doi.org/10.1111/gcb.17013)
538. Ma, B., Bai, Y., Hu, C., Xie, B., **Zhang, J.**, Ulbricht, M., Zheng, L. (2024):
Space aquatic chemistry: A roadmap for drinking water treatment in microgravity
Environ. Sci. Ecotechnol. **19**, art. 100344 [10.1016/j.esec.2023.100344](https://doi.org/10.1016/j.esec.2023.100344)
539. Ma, H., Zeng, J., Zhang, X., **Peng, J.**, Li, X., Fu, P., Cosh, M.H., Letu, H., Wang, S., Chen, N., Wigneron, J.-P. (2024):
Surface soil moisture from combined active and passive microwave observations: Integrating ASCAT and SMAP observations based on machine learning approaches
Remote Sens. Environ. **308**, art. 114197 [10.1016/j.rse.2024.114197](https://doi.org/10.1016/j.rse.2024.114197)
540. MacDougall, A.S., Esch, E., Chen, Q., Carroll, O., Bonner, C., Ohlert, T., Siewert, M., **Eskelinen, A.**, **Harpole, W.S.**, Hersch-Green, E., et al. (2024):
Widening global variability in grassland biomass since the 1980s
Nat. Ecol. Evol. **8** (10), 1877 - 1888 [10.1038/s41559-024-02500-x](https://doi.org/10.1038/s41559-024-02500-x)
541. Maddalon, A., **Pierzchalski, A.**, Krause, J.L., **Bauer, M.**, **Finckh, S.**, **Brack, W.**, **Zenclussen, A.C.**, Marinovich, M., Corsini, E., **Krauss, M.**, **Herberth, G.** (2024):
Impact of chemical mixtures from wastewater treatment plant effluents on human immune cell activation: An effect-based analysis
Sci. Total Environ. **906**, art. 167495 [10.1016/j.scitotenv.2023.167495](https://doi.org/10.1016/j.scitotenv.2023.167495)
542. Magnier, J., Fribourg-Blanc, B., Lemann, T., **Witing, F.**, Critchley, W., **Volk, M.** (2024):
Natural/Small Water Retention Measures: their contribution to ecosystem-based concepts
Sustainability **16** (3), art. 1308 [10.3390/su16031308](https://doi.org/10.3390/su16031308)
543. Mahanta, K.K., Pradhan, I.P., **Gupta, S.K.**, Shukla, D.P. (2024):
Assessing machine learning and statistical methods for rock glacier-based permafrost distribution in northern Kargil region
Permafrost Periglacial Process. **35** (3), 262 - 277 [10.1002/ppp.2240](https://doi.org/10.1002/ppp.2240)

544. **Mahecha, M.D.**, Bastos, A., **Bohn, F.J.**, Eisenhauer, N., **Feilhauer, H.**, Hickler, T., Kalesse-Los, H., Migliavacca, M., Otto, F.E.L., **Peng, J.**, Sippel, S., Tegen, I., Weigelt, A., Wendisch, M., Wirth, C., Al-Halbouni, D., Deneke, H.M., **Doktor, D.**, **Dunker, S.**, Duveiller, G., Ehrlich, A., Foth, A., **García-García, A.**, Guerra, C.A., Guimarães-Steinicke, C., Hartmann, H., Henning, S., Herrmann, H., Hu, P., Ji, C., Kattenborn, T., Kolleck, N., Kretschmer, M., **Kühn, I.**, Luttkus, M.L., Maahn, M., Mönks, M., Mora, K., Pöhlker, M., Reichstein, M., Rüger, N., Sánchez-Parra, B., Schäfer, M., Stratmann, F., Tesche, M., Wehner, B., Wieneke, S., Winkler, A.J., Wolf, S., Zaehle, S., **Zscheischler, J.**, Quaas, J. (2024): Biodiversity and climate extremes: known interactions and research gaps
Earth Future **12** (6), e2023EF003963 [10.1029/2023EF003963](https://doi.org/10.1029/2023EF003963)
545. Mäki, E., Hennig, C., **Thrän, D.**, Lange, N., Schildhauer, T., Schipfer, F. (2024): Defining bioenergy system services to accelerate the integration of bioenergy into a low-carbon economy
Biofuels Bioprod. Biorefining **18** (4), 793 - 803 [10.1002/bbb.2649](https://doi.org/10.1002/bbb.2649)
546. Manda, T., Omwoma, S., Barasa, G.O., Pembere, A.M., Sifuna, D., Ochilo, L., Lagat, S., Ngeno, E., **Ssebugere, P.**, Nagawa, C.B., Kyarimpa, C. (2024): Sorption mechanisms and enhancement of selected organochlorine pollutants in water on zeolites
J. Chem. **2024** , art. 4008315 [10.1155/2024/4008315](https://doi.org/10.1155/2024/4008315)
547. Manfreda, S., Miglino, D., Saddi, K.C., **Jomaa, S.**, Eltner, A., Perks, M., Peña-Haro, S., Bogaard, T., van Emmerik, T.H.M., Mariani, S., Maddock, I., Tauro, F., Grimaldi, S., Zeng, Y., Gonçalves, G., Strelnikova, D., Bussettini, M., Marchetti, G., Lastoria, B., Su, Z., **Rode, M.** (2024): Advancing river monitoring using image-based techniques: challenges and opportunities
Hydrol. Sci. J.-J. Sci. Hydrol. **69** (6), 657 - 677 [10.1080/02626667.2024.2333846](https://doi.org/10.1080/02626667.2024.2333846)
548. Manjarrés-López, D.P., Montemurro, N., **Ulrich, N.**, **Ebert, R.-U.**, **Jahnke, A.**, Pérez, S. (2024): Assessment, distribution, and ecological risk of contaminants of emerging concern in a surface water-sediment-fish system impacted by wastewater
Sci. Total Environ. **935** , art. 173358 [10.1016/j.scitotenv.2024.173358](https://doi.org/10.1016/j.scitotenv.2024.173358)
549. Mao, Z., **Wiegand, T.**, Corrales, A., Fang S., Hao, Z., Lin, F., Ye, J., Yuan, Z., Wang, X. (2024): Mycorrhizal types regulate tree spatial associations in temperate forests: ectomycorrhizal trees might favour species coexistence
Ecol. Lett. **27** (10), e70005 [10.1111/ele.70005](https://doi.org/10.1111/ele.70005)

550. **Markus, T., Schaller, R.** (2024):
Land-use implications of carbon dioxide removal: an emerging legal issue?
In: Ginzky, H., De Andrade Corrêa, F., Dooley, E., Heuser, I.L., Kameri-Mbote, P., Kibugi, R., Ruppel, O.C. (eds.)
International Yearbook of Soil Law and Policy 2022
Springer International Publishing, Cham, p. 107 - 121 [10.1007/978-3-031-40609-6_5](https://doi.org/10.1007/978-3-031-40609-6_5)
551. Marques, A., **Bonn, A.**, Castro, A.J., Chaudhary, A., **Felipe-Lucia, M.**, Kastner, T., Koellner, T., Lancker, K., Lopez Hoffman, L., Meyer, C., Pfister, S., Rabeschini, G., Willemen, L., Schulp, C.J.E. (2024):
The role of nature's contributions to people in sustaining international trade of agricultural products
People Nat. **6** (2), 410 - 421 [10.1002/pan3.10607](https://doi.org/10.1002/pan3.10607)
552. Martin, A., Balvanera, P., Raymond, C.M., Gómez-Baggethun, E., Eser, U., Gould, R.K., Guibrunet, L., Harmáčková, Z.V., Horcea-Milcu, A.I., Koessler, A.-K., Kumar, R., Lenzi, D., Merçon, J., Nthenge, A., O'Farrell, P.J., Pascual, U., **Rode, J.**, Yoshida, Y., Zafra-Calvo, N. (2024):
Sustainability-aligned values: exploring the concept, evidence, and practice
Ecol. Soc. **29** (4), art. 18 [10.5751/ES-15498-290418](https://doi.org/10.5751/ES-15498-290418)
553. **Martin, S., Roscher, C.** (2024):
Strengths of fertilizer and litter effects on seedling recruitment and growth of grassland species differ depending on functional groups and seed size
Ecol. Evol. **14** (7), e11650 [10.1002/ece3.11650](https://doi.org/10.1002/ece3.11650)
554. Martinuzzi, F., **Mahecha, M.D.**, Camps-Valls, G., Montero, D., Williams, T., Mora, K. (2024):
Learning extreme vegetation response to climate drivers with recurrent neural networks
Nonlinear Process Geophys. **31** (4), 535 - 557 [10.5194/npg-31-535-2024](https://doi.org/10.5194/npg-31-535-2024)
555. Matte, D., Christensen, J.H., Drews, M., Sobolowski, S., Paquin, D., Lynch, A., Kettleborough, H., Thompson, V., **Bevacqua, E.**, Heinrich, D., Pryor, S.C., Böhnisch, A., Feser, F., Prein, A.F., Fischer, E., Leduc, M. (2024):
How to engage and adapt to unprecedented extremes
Bull. Amer. Meteorol. Soc. **105** (8), E1407 - E1415 [10.1175/BAMS-D-24-0138.1](https://doi.org/10.1175/BAMS-D-24-0138.1)
556. Maurer, C., Martínez-Núñez, C., **Dominik, C.**, Heuschele, J., Liu, Y., Neumann, P., Paxton, R.J., Pellissier, L., Proesmans, W., **Schweiger, O.**, Szentgyörgyi, H., Vanbergen, A., Albrecht, M. (2024):
Landscape simplification leads to loss of plant-pollinator interaction diversity and flower visitation frequency despite buffering by abundant generalist pollinators
Divers. Distrib. **30** (9), e13853 [10.1111/ddi.13853](https://doi.org/10.1111/ddi.13853)

557. Maurer, C., Schauer, A., Yañez, O., Neumann, P., Gajda, A., Paxton, R.J., Pellissier, L., **Schweiger, O.**, Szentgyörgyi, H., Vanbergen, A.J., Albrecht, M. (2024): Species traits, landscape quality and floral resource overlap with honeybees determine virus transmission in plant–pollinator networks
Nat. Ecol. Evol. **8** (12), 2239 - 2251 [10.1038/s41559-024-02555-w](https://doi.org/10.1038/s41559-024-02555-w)
558. **Mayer, T.**, Petrich, R., **Borsdorf, H.** (2024): The ion formation and quantitative response of isoprene, monoterpenes and terpenoids in ion mobility spectrometry with atmospheric-pressure chemical ionization as a function of temperature
Sensors **24** (24), art. 7976 [10.3390/s24247976](https://doi.org/10.3390/s24247976)
559. Mc Kenna, A., Schultz, A., Neumann, M., **Lausch, A.**, Borg, E. (2024): Modelling of habitat suitability using remote sensing and spatio-temporal imprecise in-situ data on the example of red deer
Environments **11** (12), art. 269 [10.3390/environments11120269](https://doi.org/10.3390/environments11120269)
560. Medawar, E., Beyer, F., Thieleking, R., **Haange, S.-B.**, **Rolle-Kampczyk, U.**, Reinicke, M., Chakaroun, R., **von Bergen, M.**, Stumvoll, M., Villringer, A., Witte, A.V. (2024): Prebiotic diet changes neural correlates of food decision-making in overweight adults: a randomised controlled within-subject cross-over trial
Gut **73** (2), 298 - 310 [10.1136/gutjnl-2023-330365](https://doi.org/10.1136/gutjnl-2023-330365)
561. **Medeiros-Sousa, A.R.**, **Lange, M.**, Mucci, L.F., Marrelli, M.T., **Grimm, V.** (2024): Modelling the transmission and spread of yellow fever in forest landscapes with different spatial configurations
Ecol. Model. **489**, art. 110628 [10.1016/j.ecolmodel.2024.110628](https://doi.org/10.1016/j.ecolmodel.2024.110628)
562. Medina-van Berkum, P., Schmöckel, E., Bischoff, A., Carrasco-Farias, N., Catford, J.A., **Feldmann, R.**, Groten, K., Henry, H.A.L., Bucharova, A., Hänniger, S., Luong, J.C., Meis, J., Oetama, V.S.P., Pärtel, M., Power, S.A., Villellas, J., Welk, E., Wingler, A., Rothe, B., Gershenson, J., Reichelt, M., **Roscher, C.**, Unsicker, S.B. (2024): Plant geographic distribution influences chemical defences in native and introduced *Plantago lanceolata* populations
Funct. Ecol. **38** (4), 883 - 896 [10.1111/1365-2435.14535](https://doi.org/10.1111/1365-2435.14535)
563. Mehdi-Schulz, B., Zoboli, O., **Schürz, C.**, Strenge, E., Lima, E.M., Parajka, J., Wang, C., Zessner, M. (2024): The impacts of climate change on nitrogen losses to the environment in Austria: A dual model analysis across spatial and temporal scales to support policy decisions
Sci. Total Environ. **918**, art. 170730 [10.1016/j.scitotenv.2024.170730](https://doi.org/10.1016/j.scitotenv.2024.170730)

564. **Mehmood, T.**, Hassan, M.A., Ashraf, A., **Schierz, A.**, Sardar, M.F., Peng, L., Haider, F.U., Rehman, S., Ahmad, S. (2024):
Exploring microplastics: occurrence, ecological implications, and environmental dynamics in biotic systems
In: Khan, N.A., Singh, L. (eds.)
Microplastic pollutants in biotic systems: environmental impact and remediation techniques
ACS Sym. Ser. 1482
American Chemical Society (ACS), Washington, DC, p. 47
- 87 [10.1021/bk-2024-1482.ch003](https://doi.org/10.1021/bk-2024-1482.ch003)
565. Mehring, M., Brietzke, A.S., Kleemann, J., **Knauf, S.**, Poßer, C., Schreiner, V., **Wittmer, H.**, Albert, C., Fürst, C., Grunewald, K., Kolkman, M., Lettenmaier, L., Sanders, T.G.M., Schleyer, C., **Settele, J.**, Straka, T.M., Hauck, J. (2024):
Multiple ways to bend the curve of biodiversity loss: An analytical framework to support transformative change
People Nat. **6** (5), 1945 - 1959 [10.1002/pan3.10690](https://doi.org/10.1002/pan3.10690)
566. Meier, J.-N., **Lehmann, P.**, Süßmuth, B., Wedekind, S. (2024):
Correction to: Wind power deployment and the impact of spatial planning policies (vol 87, pg 491, 2024)
Environ. Resour. Econ. **87** , 551 - 552 [10.1007/s10640-024-00839-0](https://doi.org/10.1007/s10640-024-00839-0)
567. Meier, J.-N., **Lehmann, P.**, Süßmuth, B., Wedekind, S. (2024):
Wind power deployment and the impact of spatial planning policies
Environ. Resour. Econ. **87** , 491 - 550 [10.1007/s10640-023-00820-3](https://doi.org/10.1007/s10640-023-00820-3)
568. **Meier, T.**, Hensen, I., **Kühn, I.** (2024):
Functional approach to xerothermic grasslands in Central Germany: trait composition, dominant grasses and soil factors
Preslia **96** (2), 183 - 208 [10.23855/preslia.2024.183](https://doi.org/10.23855/preslia.2024.183)
569. Meisel, K., **Jordan, M.**, Dotzauer, M., Schröder, J., Lenz, V., Naumann, K., Cyffka, K.-F., Dögnitz, N., Schindler, H., Daniel-Gromke, J., Costa de Paiva, G., Schmid, C., Szarka, N., Majer, S., Müller-Langer, F., **Thrän, D.** (2024):
Quo vadis, biomass? Long-term scenarios of an optimal energetic use of biomass for the German energy transition
Int. J. Energy Res. **2024** , art. 6687376 [10.1155/2024/6687376](https://doi.org/10.1155/2024/6687376)
570. Méndez, L., Barratt, C.D., **Durka, W.**, Kissling, W.D., Eiserhardt, W.L., Baker, W.J., Randrianasolo, V., Onstein, R.E. (2024):
Genomic signatures of past megafrugivore-mediated dispersal in Malagasy palms
J. Ecol. **112** (7), 1583 - 1598 [10.1111/1365-2745.14340](https://doi.org/10.1111/1365-2745.14340)

571. **Meng, X., Peng, J.,** Hu, J., Li, J., Leng, G., Ferhatoglu, C., **Li, X., García-García, A.,** Yang, Y. (2024):
Validation and expansion of the soil moisture index for assessing soil moisture dynamics from AMSR2 brightness temperature
Remote Sens. Environ. **303** , art. 114018 [10.1016/j.rse.2024.114018](https://doi.org/10.1016/j.rse.2024.114018)
572. Menger, F., **Römerscheid, M., Lips, S.,** Klein, O., Nabi, D., Gandrass, J., Joerss, H., **Wendt-Potthoff, K.,** Bedulina, D., Zimmermann, T., **Schmitt-Jansen, M., Huber, C., Böhme, A., Ulrich, N.,** Beck, A.J., Präfrock, D., Achterberg, E.P., **Jahnke, A.,** Hildebrandt, L. (2024):
Screening the release of chemicals and microplastic particles from diverse plastic consumer products into water under accelerated UV weathering conditions
J. Hazard. Mater. **477** , art. 135256 [10.1016/j.jhazmat.2024.135256](https://doi.org/10.1016/j.jhazmat.2024.135256)
573. **Menger, J.,** Magagna, B., **Henle, K., Harpke, A., Frenzel, M.,** Rick, J., Wiltshire, K., **Grimm-Seyfarth, A.** (2024):
FAIR-EuMon: a FAIR-enabling resource for biodiversity monitoring schemes
Biodiver. Data J. **12** , e125132 [10.3897/BDJ.12.e125132](https://doi.org/10.3897/BDJ.12.e125132)
574. **Menger, J.,** Santorelli Junior, S., Emilio, T., Magnusson, W.E., Anciães, M. (2024):
Palms predict the distributions of birds in the southwestern Amazonia and are potential surrogates for land-use planning by citizen scientists
Biodivers. Conserv. **33** , 2911 - 2924 [10.1007/s10531-024-02895-w](https://doi.org/10.1007/s10531-024-02895-w)
575. Merz, B., Nguyen, V.D., Guse, B., Han, L., Guan, X., **Rakovec, O., Samaniego, L.,** Ahrens, B., Vorogushyn, S. (2024):
Spatial counterfactuals to explore disastrous flooding
Environ. Res. Lett. **19** (4), art. 044022 [10.1088/1748-9326/ad22b9](https://doi.org/10.1088/1748-9326/ad22b9)
576. Meshkini, K., Bovolo, F., **Doktor, D.** (2024):
Attention-based 3D convolutional neural network for crop boundary detection in high-resolution satellite image time series
In: Bruzzone, L., Bovolo, F. (eds.)
Artificial Intelligence and Image and Signal Processing for Remote Sensing XXX 2024, Edinburgh, 16-18 September 2024
Proceedings / SPIE **13196**
SPIE, Bellingham, WA, p. 131960E [10.1117/12.3035893](https://doi.org/10.1117/12.3035893)
577. Mesman, J.P., Barbosa, C.C., Lewis, A.S.L., Olsson, F., Calhoun-Grosch, S., Grossart, H.-P., Ladwig, R., La Fuente, R.S., Münzner, K., **Nkwale, L.G.T.,** Pilla, R.M., Suresh, K., Wain, D.J. (2024):
Challenges of open data in aquatic sciences: issues faced by data users and data providers
Front. Environ. Sci. **12** , art. 1497105 [10.3389/fenvs.2024.1497105](https://doi.org/10.3389/fenvs.2024.1497105)

578. Meyer, D., Kosacka, J., **von Bergen, M.**, Christ, B., Marz, M. (2024):
Data report on gene expression after hepatic portal vein ligation (PVL) in rats
Front. Genet. **15** , art. 1421955 [10.3389/fgene.2024.1421955](https://doi.org/10.3389/fgene.2024.1421955)
579. **Meyer, M., Koschorreck, M., Weitere, M.**, Kneis, D., **Perujo, N.** (2024):
Dissolved organic matter quality, hydrological connectivity and microbial activity shape phosphorus buffering in river-floodplain systems
Sci. Total Environ. **957** , art. 177452 [10.1016/j.scitotenv.2024.177452](https://doi.org/10.1016/j.scitotenv.2024.177452)
580. **Mi, C., Rinke, K., Shatwell, T.** (2024):
Optimizing selective withdrawal strategies to mitigate hypoxia under water-level reduction in Germany's largest drinking water reservoir
J. Environ. Sci. **146** , 127 - 139 [10.1016/j.jes.2023.06.025](https://doi.org/10.1016/j.jes.2023.06.025)
581. **Mi, C.**, Tilahun, A.B., Flörke, M., Dürr, H.H., **Rinke, K.** (2024):
Climate warming effects in stratified reservoirs: Thorough assessment for opportunities and limits of machine learning techniques versus process-based models in thermal structure projections
J. Clean Prod. **454** , art. 142347 [10.1016/j.jclepro.2024.142347](https://doi.org/10.1016/j.jclepro.2024.142347)
582. Michaelis, J., Vogel, B., Strunz, S., Lucht, W., Dahms, H., Dornack, C., Geissler, A., Hertin, J., Hoffart, F., Kemfert, C., Klein, M., **Köck, W.**, Lage, J., **Marquard, E.**, Schmalz, S., **Settele, J.**, Sommer, B., Weiss, S., Wiegand, S. (2024):
Sufficiency as a “Strategy of the Enough”: Curbing ecological crises and injustices. A summary of the German Advisory Council on the Environment’s discussion paper
GAIA **33** (3), 275 - 281 [10.14512/gaia.33.3.3](https://doi.org/10.14512/gaia.33.3.3)
583. Micheletti, T., Wimmmler, M.-C., Berger, U., **Grimm, V.**, McIntire, E.J. (2024):
Beyond guides, protocols and acronyms: Adoption of good modelling practices depends on challenging academia's status quo in ecology
Ecol. Model. **496** , art. 110829 [10.1016/j.ecolmodel.2024.110829](https://doi.org/10.1016/j.ecolmodel.2024.110829)
584. Miler, O., Czarnecka, M., **Brauns, M.** (2024):
Are riverine lowland lakes a distinct European lake type according to the EU WFD?
Ecol. Indic. **165** , art. 112201 [10.1016/j.ecolind.2024.112201](https://doi.org/10.1016/j.ecolind.2024.112201)
585. **Milles, A.**, Bielicik, M., **Banitz, T.**, Gallagher, C.A., Jeltsch, F., Jepsen, J.U., Oro, D., Radchuk, V., **Grimm, V.** (2024):
Defining ecological buffer mechanisms should consider diverse approaches
Trends Ecol. Evol. **39** (2), 119 - 120 [10.1016/j.tree.2023.12.008](https://doi.org/10.1016/j.tree.2023.12.008)
586. Mithal, V., Sillmann, J., **Zscheischler, J.** (2024):
Linking regional economic impacts of temperature-related disasters to underlying climatic hazards
Environ. Res. Lett. **19** (12), art. 124010 [10.1088/1748-9326/ad89de](https://doi.org/10.1088/1748-9326/ad89de)

587. **Möckel, S.** (2024):
Renaturierungen nur auf freiwilliger Basis? Europa- und verfassungsrechtliche Betrachtungen zum politisch favorisierten Freiwilligkeitsprinzip [Renaturations only on a voluntary basis? European law and constitutional considerations on the politically favored voluntary principle]
Nat. Recht **46** (7), 443 - 453 [10.1007/s10357-024-4407-y](https://doi.org/10.1007/s10357-024-4407-y)
588. **Möckel, S., Bartkowski, B., Beckmann, M., Strauch, M., Stubenrauch, J., Volk, M., Witing, F., Wolf, A., Baaken, M.C.** (2024):
Zukunftsfähige Agrarlandschaften in Deutschland – praktische Maßnahmen und ihre Wirksamkeit im Vergleich
Nat. Recht **46** (1), 13 - 24 [10.1007/s10357-023-4282-y](https://doi.org/10.1007/s10357-023-4282-y)
589. **Moersberger, H.,** Valdez, J., Martin, J.G.C., Junker, J., Georgieva, I., Bauer, S., Beja, P., Breeze, T.D., Fernandez, M., Fernández, N., Brotons, L., Jandt, U., Bruelheide, H., Kissling, W.D., Langer, C., Liqueste, C., Lumbierres, M., Lyche Solheim, A., Maes, J., Morán-Ordóñez, A., Moreira, F., **Pe'er, G.,** Santana, J., Shamoun-Baranes, J., Smets, B., Capinha, C., McCallum, I., Pereira, H.M., **Bonn, A.** (2024):
Biodiversity monitoring in Europe: User and policy needs
Conserv. Lett. **17** (5), e13038 [10.1111/conl.13038](https://doi.org/10.1111/conl.13038)
590. Moesch, S.S., Jeschke, J.M., Lokatis, S., Peerenboom, G., Kramer-Schadt, S., Straka, T.M., **Haase, D.** (2024):
The frequent five: Insights from interviews with urban wildlife professionals in Germany
People Nat. **6** (5), 2091 - 2108 [10.1002/pan3.10697](https://doi.org/10.1002/pan3.10697)
591. Moesch, S.S., Wellmann, T., **Haase, D.,** Bhardwaj, M. (2024):
Mammal Mia: A review on how ecological and human dimension research on urban wild mammals can benefit future biophilic cities
Basic Appl. Ecol. **79** , 90 - 101 [10.1016/j.baae.2024.05.004](https://doi.org/10.1016/j.baae.2024.05.004)
592. Mohammed, G., Siebers, N., **Merbach, I.,** Seidel, S.J., Herbst, M. (2024):
Simulation of soil phosphorus dynamics and crop yield for organic and mineral fertilization treatments at two long-term field sites
Sci. Total Environ. **957** , art. 177517 [10.1016/j.scitotenv.2024.177517](https://doi.org/10.1016/j.scitotenv.2024.177517)
593. Molaei, M., **Abdollahi, M.,** Zardkhoshoui, A.M., Hosseiny Davarani, S.S. (2024):
Advancements in energy storage: Combining hollow iron cobalt selenide spheres with nickel cobalt layered double hydroxide nanosheets
J. Energy Storage **85** , art. 111079 [10.1016/j.est.2024.111079](https://doi.org/10.1016/j.est.2024.111079)

594. **Moll, J.**, Bässler, C., **Buscot, F.**, Hoppe, B., **Jehmlich, N.**, Kellner, H., Muszynski, S., Noll, M. (2024):
Extrinsic rather than intrinsic factors determine microbial colonization of deadwood
Soil Biol. Biochem. **199** , art. 109608 [10.1016/j.soilbio.2024.109608](https://doi.org/10.1016/j.soilbio.2024.109608)
595. Monikh, F.A., Lehtonen, Š., Kekäläinen, J., **Karkossa, I.**, Auriola, S., **Schubert, K.**, Zanut, A., Peltonen, S., Niskanen, J., Bandekar, M., **von Bergen, M.**, Leskinen, J.T.T., Koistinen, A., Bogialli, S., Guo, Z., Kukkonen, J.V.K., Chen, C., Lynch, I. (2024):
Biotransformation of nanoplastics in human plasma and their permeation through a model *in vitro* blood-brain barrier: An in-depth quantitative analysis
Nano Today **59** , art. 102466 [10.1016/j.nantod.2024.102466](https://doi.org/10.1016/j.nantod.2024.102466)
596. Montero, D., Aybar, C., Kraemer, G., Söchting, M., Teber, K., **Mahecha, M.D.** (2024):
On-demand Earth System Data Cubes
2024 IEEE International Geoscience and Remote Sensing Symposium, Athens, Greece, 07-12 July 2024
International Geoscience and Remote Sensing Symposium *IGARSS 2024*
Institute of Electrical and Electronics Engineers
(IEEE), New York, NY, p. 7529 - 7532 [10.1109/IGARSS53475.2024.10640742](https://doi.org/10.1109/IGARSS53475.2024.10640742)
597. Montero, D., **Mahecha, M.D.**, Martinuzzi, F., Aybar, C., Klosterhalfen, A., Knohl, A., Koebisch, F., Anaya, J., Wieneke, S. (2024):
Recurrent neural networks for modelling gross primary production
2024 IEEE International Geoscience and Remote Sensing Symposium, Athens, Greece, 07-12 July 2024
International Geoscience and Remote Sensing Symposium *IGARSS 2024*
Institute of Electrical and Electronics Engineers
(IEEE), New York, NY, p. 4214 - 4217 [10.1109/IGARSS53475.2024.10640715](https://doi.org/10.1109/IGARSS53475.2024.10640715)
598. Morton, J.A., Arnillas, C.A., Biedermann, L., Borer, E.T., Brudvig, L.A., Buckley, Y.M., Cadotte, M.W., Davies, K., Donohue, I., Ebeling, A., Eisenhauer, N., Estrada, C., Haider, S., Hautier, Y., Jentsch, A., Martinson, H., McCulley, R.L., Raynaud, X., **Roscher, C.**, Seabloom, E.W., Stevens, C.J., Vesela, K., Wallace, A., Leitch, I.J., Leitch, A.R., Hersch-Green, E.I. (2024):
Genome size influences plant growth and biodiversity responses to nutrient fertilization in diverse grassland communities
PLoS Biol. **22** (12), e3002927 [10.1371/journal.pbio.3002927](https://doi.org/10.1371/journal.pbio.3002927)
599. Mueller, C.W., Baumert, V., Carminati, A., Germon, A., Holz, M., Kögel-Knabner, I., Peth, S., **Schlüter, S.**, Uteau, D., **Vetterlein, D.**, Teixeira, P., Vidal, A. (2024):
From rhizosphere to detritusphere - Soil structure formation driven by plant roots and the interactions with soil biota
Soil Biol. Biochem. **193** , art. 109396 [10.1016/j.soilbio.2024.109396](https://doi.org/10.1016/j.soilbio.2024.109396)

600. Muhammad, S., Ahmed, T., **Ullah, R.**, Tokatli, C., Ahmad, A. (2024):
Spatial distribution of heavy metal contamination and risk indices of surface sediments in high-altitude lakes
Environ. Monit. Assess. **196** (12), art. 1188 [10.1007/s10661-024-13361-z](https://doi.org/10.1007/s10661-024-13361-z)
601. Muhammad, S., **Ullah, R.**, Amin, S., Haroon, H., Ahmad, A. (2024):
Spatial distribution of groundwater quality and risk indices evaluation via consumption
Phys. Chem. Earth **136**, art. 103789 [10.1016/j.pce.2024.103789](https://doi.org/10.1016/j.pce.2024.103789)
602. Muhammad, S., Zeb, A., **Ullah, R.**, Amin, S., Ahmad, A., Tokatli, C. (2024):
Spatial distribution of drinking, irrigation water quality, and health risk indices of high-altitude lakes
Phys. Chem. Earth **134**, art. 103597 [10.1016/j.pce.2024.103597](https://doi.org/10.1016/j.pce.2024.103597)
603. Muheki, D., Deijns, A.A.J., **Bevacqua, E.**, Messori, G., **Zscheischler, J.**, Thiery, W. (2024):
The perfect storm? Co-occurring climate extremes in East Africa
Earth Syst. Dynam. **15** (2), 429 - 466 [10.5194/esd-15-429-2024](https://doi.org/10.5194/esd-15-429-2024)
604. **Müller, T.**, **de Rooij, G.H.**, Trauth, N., Schmidt, M., Al Badi, H., Aeschbach, W. (2024):
Noble gases in groundwater reflect wet-season temperature in an arid, monsoonal, and mountainous environment
Earth Planet. Sci. Lett. **626**, art. 118534 [10.1016/j.epsl.2023.118534](https://doi.org/10.1016/j.epsl.2023.118534)
605. **Muschket, M.**, Neuwald, I.J., **Zahn, D.**, **Seelig, A.H.**, Kuckelkorn, J., Knepper, T.P., **Reemtsma, T.** (2024):
Fate of persistent and mobile chemicals in the water cycle: From municipal wastewater discharges to river bank filtrate
Water Res. **266**, art. 122436 [10.1016/j.watres.2024.122436](https://doi.org/10.1016/j.watres.2024.122436)
606. **Mushtaq, I.**, **Shahid, N.**, **Siddique, A.**, **Liess, M.** (2024):
Sequential pesticide exposure: Concentration addition at high concentrations - Inhibition of hormesis at ultra-low concentrations
Sci. Total Environ. **954**, art. 176493 [10.1016/j.scitotenv.2024.176493](https://doi.org/10.1016/j.scitotenv.2024.176493)
607. **Musolff, A.**, **Tarasova, L.**, **Rinke, K.**, **Ledesma, J.L.J.** (2024):
Forest dieback alters nutrient pathways in a temperate headwater catchment
Hydrol. Process. **38** (10), e15308 [10.1002/hyp.15308](https://doi.org/10.1002/hyp.15308)
608. **Musonda, F.**, Millinger, M., **Thrän, D.** (2024):
Modeling assessment of resource competition for renewable basic chemicals and the effect of recycling
GCB Bioenergy **16** (4), e13133 [10.1111/gcbb.13133](https://doi.org/10.1111/gcbb.13133)

609. Myrmel, L.S., Fjære, E., Han, M., Jensen, B.A.H., **Rolle-Kampczyk, U.**, Danneskiold-Samsøe, N.B., Ho, Q.T., Smette, A., **von Bergen, M.**, Xiao, L., Kristiansen, K., Madsen, L. (2024):
The food sources in western diets modulate obesity development, insulin sensitivity, and the plasma and cecal metabolome in mice
Mol. Nutr. Food Res. **68** (16), art. 2400246 [10.1002/mnfr.202400246](https://doi.org/10.1002/mnfr.202400246)
610. Myrontsov, M., Karpenko, O., Oshkodorov, E., Krasovska, I., **Anpilova, Y.** (2024):
Solving oil and gas wells' inverse problem of electrometry with the error of measurement data
In: Babak, V., Zaporozhets, A. (eds.)
Systems, decision and control in energy VI. Volume I: Energy informatics and transport Studies in Systems, Decision and Control 561
Springer, Berlin, Heidelberg, New York, p. 349 - 359 [10.1007/978-3-031-68372-5_18](https://doi.org/10.1007/978-3-031-68372-5_18)
611. **Najafi, H., Shrestha, P.K., Rakovec, O.**, Apel, H., Vorogushyn, S., **Kumar, R., Thober, S.**, Merz, B., **Samaniego, L.** (2024):
High-resolution impact-based early warning system for riverine flooding
Nat. Commun. **15** , art. 3726 [10.1038/s41467-024-48065-y](https://doi.org/10.1038/s41467-024-48065-y)
612. **Nakulopa, F., Bärlund, I., Borchardt, D.** (2024):
How a reservoir modulates downstream water quality under declining upstream loading and progressing climate change
Sci. Total Environ. **912** , art. 169460 [10.1016/j.scitotenv.2023.169460](https://doi.org/10.1016/j.scitotenv.2023.169460)
613. Narimanov, N., **Heuschele, J.M.**, Entling, M.H., Menzel, F., Mestre, L. (2024):
Differential effects of ephemeral and stable predator chemical cues on spider antipredator behaviour
J. Chem. Ecol. **50** (11), 714 - 724 [10.1007/s10886-024-01543-5](https://doi.org/10.1007/s10886-024-01543-5)
614. Nassery, H.R., Shahsavari, A.A., **Vogt, C., Kümmel, S.**, Kuntze, K., Khodaei, K., Nikpeyman, Y., Richnow, H.-H. (2024):
Source differentiation of BTEX compounds in groundwater contaminated due to refinery activities
J. Environ. Manage. **366** , art. 121893 [10.1016/j.jenvman.2024.121893](https://doi.org/10.1016/j.jenvman.2024.121893)
615. Neacă, A.-M., **Meis, J., Knight, T., Rakosy, D.** (2024):
Intensive pasture management alters the composition and structure of plant-pollinator interactions in Sibiu, Romania
PeerJ **12** , e16900 [10.7717/peerj.16900](https://doi.org/10.7717/peerj.16900)

616. Nearing, G., Cohen, D., Dube, V., Gauch, M., Gilon, O., Harrigan, S., Hassidim, A., **Klotz, D.**, Kratzert, F., Metzger, A., Nevo, S., Pappenberger, F., Prudhomme, C., Shalev, G., Shenzi, S., Tekalign, T.Y., Weitzner, D., Matias, Y. (2024):
Global prediction of extreme floods in ungauged watersheds
Nature **627** (8004), 559 - 563 [10.1038/s41586-024-07145-1](https://doi.org/10.1038/s41586-024-07145-1)
617. **Neu, T.R., Kuhlicke, U.**, Karwautz, C., Lüders, T. (2024):
Unique architecture of microbial snottites from a methane driven biofilm revealed by confocal microscopy
Microsc. Res. Tech. **87** (2), 205 - 213 [10.1002/jemt.24422](https://doi.org/10.1002/jemt.24422)
618. Neyret, M., Le Provost, G., Boesing, A.L., Schneider, F.D., Baulechner, D., Bergmann, J., de Vries, F.T., Fiore-Donno, A.M., Geisen, S., **Goldmann, K.**, Merges, A., Saifutdinov, R.A., Simons, N.K., Tobias, J.A., Zaitsev, A.S., Gossner, M.M., Jung, K., Kandeler, E., Krauss, J., Penone, C., Schlöter, M., Schulz, S., Staab, M., Wolters, V., Apostolakis, A., Birkhofer, K., Boch, S., Boeddinghaus, R.S., Bolliger, R., Bonkowski, M., **Buscot, F.**, Dumack, K., Fischer, M., Gan, H.Y., Heinze, J., Hölzel, N., John, K., Klaus, V.H., Kleinebecker, T., Marhan, S., Müller, J., Renner, S.C., Rillig, M.C., Schenk, N.V., Schöning, I., Schrumpf, M., Seibold, S., Socher, S.A., **Solly, E.F.**, Teuscher, M., van Kleunen, M., **Wubet, T.**, Manning, P. (2024):
A slow-fast trait continuum at the whole community level in relation to land-use intensification
Nat. Commun. **15** , art. 1251 [10.1038/s41467-024-45113-5](https://doi.org/10.1038/s41467-024-45113-5)
619. Ngeno, E., Ongulu, R., Shikuku, V., Ssentongo, D., Otieno, B., **Ssebugere, P.**, Orata, F. (2024):
Response surface methodology directed modeling of the biosorption of progesterone onto acid activated *Moringa oleifera* seed biomass: Parameters and mechanisms
Chemosphere **360** , art. 142457 [10.1016/j.chemosphere.2024.142457](https://doi.org/10.1016/j.chemosphere.2024.142457)
620. Nguyen, T.S., **Kolditz, O.**, Yoon, J.S., Zhuang, L. (2024):
Modelling the thermo-mechanical behaviour of a rock joint
Geomech. Energy Environ. **37** , art. 100520 [10.1016/j.gete.2023.100520](https://doi.org/10.1016/j.gete.2023.100520)
621. Nguyen, T.T., Staneva, J., Grayek, S., Bonaduce, A., Hagemann, S., Pham, N.T., **Kumar, R., Rakovec, O.** (2024):
Impacts of extreme river discharge on coastal dynamics and eEnvironment: Insights from high-resolution modeling in the German Bight
Reg. Stud. Mar. Sci. **73** , art. 103476 [10.1016/j.rsma.2024.103476](https://doi.org/10.1016/j.rsma.2024.103476)

622. Nian, M., **Braun, G., Escher, B.I.**, Fang, M. (2024):
Toxicological study of human exposure to mixtures of chemicals: Challenges and approaches
Environ. Sci. Technol. **11** (8), 773 - 782 [10.1021/acs.estlett.4c00393](https://doi.org/10.1021/acs.estlett.4c00393)
623. Nicholson, C.C., Knapp, J., Kiljanek, T., Albrecht, M., Chauzat, M.-P., Costa, C., De la Rúa, P., Klein, A.-M., Mänd, M., Potts, S.G., **Schweiger, O.**, Bottero, I., Cini, E., de Miranda, J.R., di Prisco, G., **Dominik, C.**, Hodge, S., Kaunath, V., Knauer, A., Laurent, M., Martínez-López, V., Medrzycki, P., Pereira-Peixoto, M.H., Raimets, R., Schwarz, J.M., Senapathi, D., Tamburini, G., Brown, M.J.F., Stout, J.C., Rundlöf, M. (2024):
Pesticide use negatively affects bumble bees across European landscapes
Nature **628** (8007), 355 - 358 [10.1038/s41586-023-06773-3](https://doi.org/10.1038/s41586-023-06773-3)
624. Nie, M., Huang, S., Duan, W., Leng, G., Bai, G., Wang, Z., Huang, Q., Fang, W., **Peng, J.** (2024):
Meteorological drought migration characteristics based on an improved spatiotemporal structure approach in the Loess Plateau of China
Sci. Total Environ. **912**, art. 168813 [10.1016/j.scitotenv.2023.168813](https://doi.org/10.1016/j.scitotenv.2023.168813)
625. Nie, M., Huang, S., Zeng, X-M., **Peng, J.**, Bai, G. (2024):
Spatiotemporal desynchronization in the propagation from meteorological to soil moisture drought in the Loess Plateau, China
J. Hydrol. Reg. Stud. **56**, art. 102025 [10.1016/j.ejrh.2024.102025](https://doi.org/10.1016/j.ejrh.2024.102025)
626. Niedeggen, D., Rüger, L., Oburger, E., Santangeli, M., Mutez, A., **Vetterlein, D.**, Blagodatsky, S., Bonkowski, M. (2024):
Microbial utilisation of maize rhizodeposits applied to an agricultural soil at a range of concentrations
Eur. J. Soil Sci. **75** (4), e13530 [10.1111/ejss.13530](https://doi.org/10.1111/ejss.13530)
627. Niedermayer, F., Wolf, K., Zhang, S., Dallavalle, M., Nikolaou, N., Schwettmann, L., **Selsam, P.**, Hoffmann, B., Schneider, A., Peters, A. (2024):
Sex-specific associations of environmental exposures with prevalent diabetes and obesity – Results from the KORA Fit study
Environ. Res. **252**, Part 3, art. 118965 [10.1016/j.envres.2024.118965](https://doi.org/10.1016/j.envres.2024.118965)
628. Nies, D.H., Schleuder, G., Galea, D., **Herzberg, M.** (2024):
A flow equilibrium of zinc in cells of *Cupriavidus metallidurans*
J. Bacteriol. **206** (5), e00080-24 [10.1128/jb.00080-24](https://doi.org/10.1128/jb.00080-24)

629. **Nieto, E.E., Jurburg, S.D., Steinbach, N., Festa, S., Morelli, I.S., Coppotelli, B.M., Chatzinotas, A.** (2024):
DNA stable isotope probing reveals the impact of trophic interactions on bioaugmentation of soils with different pollution histories
Microbiome **12** , art. 146 [10.1186/s40168-024-01865-2](https://doi.org/10.1186/s40168-024-01865-2)
630. Nilgen, M., **Rode, J.**, Vorlaufer, T., Vollan, B. (2024):
Measuring non-use values to proxy conservation preferences and policy impacts
Ecosyst. Serv. **67** , art. 101621 [10.1016/j.ecoser.2024.101621](https://doi.org/10.1016/j.ecoser.2024.101621)
631. Ninin, J.M.L., **Muehe, E.M.**, Kölbl, A., Mori, A.H., Nicol, A., Gilfedder, B., Pausch, J., Urbanski, L., Lueders, T., Planer-Friedrich, B. (2024):
Changes in arsenic mobility and speciation across a 2000-year-old paddy soil chronosequence
Sci. Total Environ. **908** , art. 168351 [10.1016/j.scitotenv.2023.168351](https://doi.org/10.1016/j.scitotenv.2023.168351)
632. **Nogueira, G.E.H.**, Partington, D., **Heidbüchel, I., Fleckenstein, J.H.** (2024):
Combined effects of geological heterogeneity and discharge events on groundwater and surface water mixing
J. Hydrol. **638** , art. 131467 [10.1016/j.jhydrol.2024.131467](https://doi.org/10.1016/j.jhydrol.2024.131467)
633. Nonthijun, P., Tanunchai, B., Schroeter, S.A., Wahdan, S.F.M., Gomes Alves, E., Hilke, I., **Buscot, F.**, Schulze, E.-D., Disayathanoowat, T., **Purahong, W.**, Noll, M. (2024):
Feels like home: A biobased and biodegradable plastic offers a novel habitat for diverse plant pathogenic fungi in temperate forest ecosystems
Microb. Ecol. **87** (1), art. 155 [10.1007/s00248-024-02466-0](https://doi.org/10.1007/s00248-024-02466-0)
634. **Nöth, J., Busch, W., Tal, T.**, Lai, C., Ambekar, A., Kießling, T.R., **Scholz, S.** (2024):
Analysis of vascular disruption in zebrafish embryos as an endpoint to predict developmental toxicity
Arch. Toxicol. **98** (2), 537 - 549 [10.1007/s00204-023-03633-x](https://doi.org/10.1007/s00204-023-03633-x)
635. Nowak-Olejniki, A., Działek, J., Hibner, J., Liro, J., Madej, R., Sudmanns, M., **Haase, D.** (2024):
The benefits and disbenefits associated with cultural ecosystem services of urban green spaces
Sci. Total Environ. **926** , art. 172092 [10.1016/j.scitotenv.2024.172092](https://doi.org/10.1016/j.scitotenv.2024.172092)
636. **Nunes Carvalho, T.M.**, de Assis de Souza Filho, F., **de Brito, M.M.** (2024):
Unveiling water allocation dynamics: a text analysis of 25 years of stakeholder meetings
Environ. Res. Lett. **19** (4), art. 044066 [10.1088/1748-9326/ad37cd](https://doi.org/10.1088/1748-9326/ad37cd)

637. **Nunes da Rocha, U., Kasmanas, J.C., Kallies, R., Saraiva, J.P., Brizola Toscan, R., Štefanič, P., Fleming Bicalho, M., Borim Correa, F., Baştürk, M.N., Fousekis, E., Viana Barbosa, L.M., Plewka, J., Probst, A.J., Baldrian, P., Stadler, P.F., CLUE-TERRA consortium, (2024):**
MuDoGeR: Multi-Domain Genome recovery from metagenomes made easy
Mol. Ecol. Resour. **24** (2), e13904 [10.1111/1755-0998.13904](https://doi.org/10.1111/1755-0998.13904)
638. **Nunes da Rocha, U., Kasmanas, J.C., Toscan, R., Sanches, D.S., Magnúsdóttir, S., Saraiva, J.P. (2024):**
Simulation of 69 microbial communities indicates sequencing depth and false positives are major drivers of bias in prokaryotic metagenome-assembled genome recovery
PLoS Comput. Biol. **20** (10), e1012530 [10.1371/journal.pcbi.1012530](https://doi.org/10.1371/journal.pcbi.1012530)
639. **Obringer, R., Nateghi, R., Knee, J., Madani, K., Kumar, R. (2024):**
Urban water and electricity demand data for understanding climate change impacts on the water-energy nexus
Sci. Data **11** , art. 108 [10.1038/s41597-024-02930-z](https://doi.org/10.1038/s41597-024-02930-z)
640. **Oh, R.R.Y., Fuller, R.A., Peters, B., Dean, A.J., Pachana, N.A., Callaghan, C.T., Sockhill, N.J., Bonn, A., Suarez-Castro, A.F. (2024):**
Enhancing the health and wellbeing benefits of biodiversity citizen science
Front. Environ. Sci. **12** , art. 1444161 [10.3389/fenvs.2024.1444161](https://doi.org/10.3389/fenvs.2024.1444161)
641. **Ohler, K., Schreiner, V.C., Reinhard, L., Link, M., Liess, M., Brack, W., Schäfer, R.B. (2024):**
Land use alters cross-ecosystem transfer of high value fatty acids by aquatic insects
Environ. Sci. Eur. **36** , art. 10 [10.1186/s12302-023-00831-3](https://doi.org/10.1186/s12302-023-00831-3)
642. **Ohnemus, T., Zacharias, S., Dirnböck, T., Bäck, J., Brack, W., Forsius, M., Mallast, U., Nikolaidis, N.P., Peterseil, J., Piscart, C., Pando, F., Poppe Terán, C., Mirtl, M. (2024):**
The eLTER research infrastructure: Current design and coverage of environmental and socio-ecological gradients
Environ. Sustain. Indic. **23** , art. 100456 [10.1016/j.indic.2024.100456](https://doi.org/10.1016/j.indic.2024.100456)
643. **Okeke, M., Eze, P.M., Chukwudebelu, A.E., Nwankwo, C.J., Eze, N.K., Okafor, U.U., Abonyi, I.C., Okereke, E.E., Obasi, K.O., Ede, O.A., Ejikeugwu, C.P., Ilo, C.I., Okafor, J.O. (2024):**
Tuberculosis and HIV/AIDS coinfection in patients attending Directly Observed Treatment Short-course (DOTS) centers in Anambra State, Nigeria: A retrospective study
Health Sci Rep. **7** (6), e2201 [10.1002/hsr2.2201](https://doi.org/10.1002/hsr2.2201)

644. Oliveira, V., Cleary, D.F.R., Polónia, A.R.M., Huang, Y.M., **Nunes da Rocha, U.**, de Voogd, N.J., Gomes, N.C.M. (2024):
Unravelling a latent pathobiome across coral reef biotopes
Environ. Microbiol. **26** (12), e70008 [10.1111/1462-2920.70008](https://doi.org/10.1111/1462-2920.70008)
645. Oprei, A., Schreckinger, J., **Kamjunke, N.**, Worrich, A., Mutz, M., **Risse-Buhl, U.** (2024):
Migrating ripples create streambed heterogeneity altering microbial diversity and metabolic activity
Limnol. Oceanogr. **69** (8), 1882 - 1899 [10.1002/lno.12631](https://doi.org/10.1002/lno.12631)
646. Ornik, M., Salinas, R., Antonacci, G., **Schädler, M.**, Azarbad, H. (2024):
The stress history of soil bacteria under organic farming enhances the growth of wheat seedlings
Front. Microbiol. **15**, art. 1355158 [10.3389/fmicb.2024.1355158](https://doi.org/10.3389/fmicb.2024.1355158)
647. Oswald, S.E., Angermann, L., Bogen, H.R., Förster, M., **García-García, A.**, Lischeid, G., Paton, E.N., **Altdorff, D.**, **Attinger, S.**, Güntner, A., Hartmann, A., Hendricks Franssen, H.-J., **Hildebrandt, A.**, Kleinschmit, B., Orth, R., **Peng, J.**, Ryo, M., **Schrön, M.**, Wagner, W., Wagener, T. (2024):
Hydrology on solid grounds? Integration is key to closing knowledge gaps concerning landscape subsurface water storage dynamics
Hydrol. Process. **38** (11), e15320 [10.1002/hyp.15320](https://doi.org/10.1002/hyp.15320)
648. **Otto, D.**, **Matzner, N.** (2024):
Let us get regional: Exploring prospects for biomass-based carbon dioxide removal on the ground
C-J. Carbon Res. **10** (1), art. 25 [10.3390/c10010025](https://doi.org/10.3390/c10010025)
649. Otto, J., Borgström, S., **Haase, D.**, Andersson, E. (2024):
Capturing residents' perceptions of green spaces in densifying urban landscapes - the potentials of mental mapping
Urban For. Urban Green. **94**, art. 128266 [10.1016/j.ufug.2024.128266](https://doi.org/10.1016/j.ufug.2024.128266)
650. Ottosen, C.F., Bjerg, P.L., **Kümmel, S.**, **Richnow, H.H.**, Middeldorp, P., Draborg, H., Lemaire, G.G., Broholm, M.M. (2024):
Natural attenuation of sulfonamides and metabolites in contaminated groundwater – Review, advantages and challenges of current documentation techniques
Water Res. **254**, art. 121416 [10.1016/j.watres.2024.121416](https://doi.org/10.1016/j.watres.2024.121416)
651. Owen, D., Fitch, A., Fletcher, D., **Knopp, J.**, Levin, G., Farley, K., **Banzhaf, E.**, Zandersen, M., Grandin, G., Jones, L. (2024):
Opportunities and constraints of implementing the 3-30-300 rule for urban greening
Urban For. Urban Green. **98**, art. 128393 [10.1016/j.ufug.2024.128393](https://doi.org/10.1016/j.ufug.2024.128393)

652. Ozbayram, E.G., **Kleinstaub, S., Sträuber, H., Grosch Schroeder, B., Nunes da Rocha, U., Borim Corrêa, F., Harms, H., Nikolausz, M.** (2024):
Three-domain microbial communities in the gut of *Pachnoda marginata* larvae: A comparative study revealing opposing trends in gut compartments
Environ. Microbiol. Rep. **16** (4), e13324 [10.1111/1758-2229.13324](https://doi.org/10.1111/1758-2229.13324)
653. **Özdemir, A., Volk, M., Strauch, M., Witing, F.** (2024):
The effects of climate change on streamflow, nitrogen loads, and crop yields in the Gordes Dam Basin, Turkey
Water **16** (10), art. 1371 [10.3390/w16101371](https://doi.org/10.3390/w16101371)
654. Ozerova, I., Fallmann, J., Mörl, M., **Bernt, M.**, Prohaska, S.J., Stadler, P.F. (2024):
Aberrant mitochondrial tRNA genes appear frequently in animal evolution
Genome Biol. Evol. **16** (11), evae232 [10.1093/gbe/evae232](https://doi.org/10.1093/gbe/evae232)
655. Pachore, A.B., Remesan, R., **Kumar, R.** (2024):
Multifractal characterization of meteorological to agricultural drought propagation over India
Sci. Rep. **14** , art. 18889 [10.1038/s41598-024-68534-0](https://doi.org/10.1038/s41598-024-68534-0)
656. Pachter, D., Kaplan, A., Tsaban, G., Zelicha, H., Meir, A.Y., Rinott, E., Levakov, G., Salti, M., Yovell, Y., **Huhn, S.**, Beyer, F., Witte, V., Kovacs, P., **von Bergen, M.**, Ceglarek, U., Blüher, M., Stumvoll, M., Hu, F.B., Stampfer, M.J., Friedman, A., Shelef, I., Avidan, G., Shai, I. (2024):
Glycemic control contributes to the neuroprotective effects of Mediterranean and green Mediterranean diets on brain age: the DIRECT-PLUS brain-magnetic resonance imaging randomized controlled trial
Am. J. Clin. Nutr. **120** (5), 1029 - 1036 [10.1016/j.ajcnut.2024.09.013](https://doi.org/10.1016/j.ajcnut.2024.09.013)
657. Padioleau, A., Cariou, R., Guiffard, I., Le Bizec, B., **Escher, B.I.**, Antignac, J.-P., Dervilly, G. (2024):
Non-targeted analysis of lipidic extracts by high-resolution mass spectrometry to characterise the chemical exposome: Comparison of four clean-up strategies applied to egg
J. Chromatogr. B **1232** , art. 123963 [10.1016/j.jchromb.2023.123963](https://doi.org/10.1016/j.jchromb.2023.123963)
658. Palatinszky, M., Herbold, C.W., Sedlacek, C.J., Pühringer, D., Kitzinger, K., Giguere, A.T., Wasmund, K., Nielsen, P.H., Dueholm, M.K.D., **Jehmlich, N.**, Gruseck, R., Legin, A., Kostan, J., Krasnici, N., Schreiner, C., Palmetzhofer, J., Hofmann, T., Zumstein, M., Djinović-Carugo, K., Daims, H., Wagner, M. (2024):
Growth of complete ammonia oxidizers on guanidine
Nature **633** (8030), 646 - 653 [10.1038/s41586-024-07832-z](https://doi.org/10.1038/s41586-024-07832-z)

659. Pandey, K., **Saharan, B.S.**, Kumar, R., Jabborova, D., Duhan, J.S. (2024):
Modern-day green strategies for the removal of chromium from wastewater
J. Xenobiotics **14** (4), 670 - 1696 [10.3390/jox14040089](https://doi.org/10.3390/jox14040089)
660. **Pannicke-Prochnow, N.**, Albrecht, J. (2024):
Unsealing: Benefits, potentials, legal provisions and funding: the German experience
In: Ginzky, H., De Andrade Corrêa, F., Dooley, E., Heuser, I.L., Kameri-Mbote, P.,
Kibugi, R., Ruppel, O.C. (eds.)
International Yearbook of Soil Law and Policy 2022
Springer International Publishing, Cham, p. 83 - 106 [10.1007/978-3-031-40609-6_4](https://doi.org/10.1007/978-3-031-40609-6_4)
661. Papadopoulos Lambidis, S., Schramm, T., Steuer-Lodd, K., Farrell, S., Stincone,
P., Schmid, R., Koester, I., Torres, R., Dittmar, T., Aluwihare, L., **Simon, C.**, Petras, D.
(2024):
Two-dimensional liquid chromatography tandem mass spectrometry untangles the deep
metabolome of marine dissolved organic matter
Environ. Sci. Technol. **58** (43), 19289 - 19304 [10.1021/acs.est.4c07173](https://doi.org/10.1021/acs.est.4c07173)
662. Park, J.-W., Park, C.-H., Zhuang, L., Yoon, J.S., **Kolditz, O.**, McDermott, C.I., Park,
E.-S., Lee, C. (2024):
Grain-based distinct element modeling of thermally induced slip of critically stressed rock
fracture
Geomech. Energy Environ. **39**, art. 100580 [10.1016/j.gete.2024.100580](https://doi.org/10.1016/j.gete.2024.100580)
663. Parus, A., Ciesielski, T., Woźniak-Karczewska, M., Ławniczak, Ł., Janeda,
M., Ślachciński, M., Radzikowska-Kujawska, D.I., Owsianiak, M., Marecik,
R., Loibner, A.P., **Heipieper, H.J.**, Chrzanowski, Ł. (2024):
Critical evaluation of the performance of rhamnolipids as surfactants for
(phyto)extraction of Cd, Cu, Fe, Pb and Zn from copper smelter-affected soil
Sci. Total Environ. **912**, art. 168382 [10.1016/j.scitotenv.2023.168382](https://doi.org/10.1016/j.scitotenv.2023.168382)
664. Páscoa, P., Gouveia, C.M., **Ribeiro, A.F.S.**, Russo, A. (2024):
Compound drought and hot events assessment in Australia using copula functions
Environ. Res. Commun. **6** (3), art. 031002 [10.1088/2515-7620/ad2bb8](https://doi.org/10.1088/2515-7620/ad2bb8)
665. **Pasqualini, J.**, Graeber, D., Bartusch, A., Kümmel, S., Duran Hernandez, Z.L.,
Musat, N., Sunjidmaa, N., Weitere, M., Brauns, M. (2024):
Disentangling effects of multiple agricultural stressors on benthic and hyporheic nitrate
uptake
Biogeochemistry **167** (3), 287 - 299 [10.1007/s10533-024-01130-6](https://doi.org/10.1007/s10533-024-01130-6)

666. Pastor-López, E.J., Escolà, M., Kisieliu, V., Arias, C.A., Carvalho, P.N., Gorito, A.M., Ramos, S., Freitas, V., Guimarães, L., Almeida, C.M.R., Müller, J.A., **Küster, E.**, Kilian, R.M., Diawara, A., Ba, S., Matamoros, V. (2024):
Potential of nature-based solutions to reduce antibiotics, antimicrobial resistance, and pathogens in aquatic ecosystems. a critical review
Sci. Total Environ. **946**, art. 174273 [10.1016/j.scitotenv.2024.174273](https://doi.org/10.1016/j.scitotenv.2024.174273)
667. Patseva, I., Lukianova, V., **Anpilova, Y.**, Mohelnytska, L., Gerasimchuk, O. (2024):
The ecological assessment of small rivers in Ukraine under conditions of intense war impact
Romanian Journal of Geography **68** (1), 127 - 134 [10.59277/rrg.2024.1.08](https://doi.org/10.59277/rrg.2024.1.08)
668. Patt, M., **Karkossa, I.**, **Krieg, L.**, Massier, L., Makki, K., Tabei, S., Karlas, T., Dietrich, A., Gericke, M., Stumvoll, M., Blüher, M., **von Bergen, M.**, **Schubert, K.**, Kovacs, P., Chakaroun, R.M. (2024):
FGF21 and its underlying adipose tissue-liver axis inform cardiometabolic burden and improvement in obesity after metabolic surgery
EBioMedicine **110**, art. 105458 [10.1016/j.ebiom.2024.105458](https://doi.org/10.1016/j.ebiom.2024.105458)
669. Paulus, S.J., Orth, R., Lee, S.-C., **Hildebrandt, A.**, Jung, M., Nelson, J.A., El-Madany, T.S., Carrara, A., Moreno, G., Mauder, M., Groh, J., Graf, A., Reichstein, M., Migliavacca, M. (2024):
Interpretability of negative latent heat fluxes from eddy covariance measurements in dry conditions
Biogeosciences **21** (8), 2051 - 2085 [10.5194/bg-21-2051-2024](https://doi.org/10.5194/bg-21-2051-2024)
670. **Pause, L.**, Weimer, A., Wirth, N.T., **Nguyen, A.V.**, **Lenz, C.**, Kohlstedt, M., Wittmann, C., Nikel, P.I., **Lai, B.**, **Krömer, J.O.** (2024):
Anaerobic glucose uptake in *Pseudomonas putida* KT2440 in a bioelectrochemical system
Microb. Biotechnol. **17** (1), e14375 [10.1111/1751-7915.14375](https://doi.org/10.1111/1751-7915.14375)
671. Peralta, G., CaraDonna, P.J., **Rakosy, D.**, Fründ, J., Pascual Tudanca, M.P., Dormann, C.F., Burkle, L.A., Kaiser-Bunbury, C.N., **Knight, T.M.**, Resasco, J., Winfree, R., Blüthgen, N., Castillo, W.J., Vázquez, D.P. (2024):
Predicting plant–pollinator interactions: concepts, methods, and challenges
Trends Ecol. Evol. **39** (5), 494 - 505 [10.1016/j.tree.2023.12.005](https://doi.org/10.1016/j.tree.2023.12.005)
672. Pereira, H.M., Martins, I.S., Rosa, I.M.D., Kim, H.J., Leadley, P., Popp, A., van Vuuren, D.P., **Settele, J.**, Sharp, R., et al. (2024):
Global trends and scenarios for terrestrial biodiversity and ecosystem services from 1900 to 2050
Science **384** (6694), 458 - 465 [10.1126/science.adn3441](https://doi.org/10.1126/science.adn3441)

673. **Perez-del-Pulgar, C.**, Anguelovski, I., Connolly, J.J.T. (2024):
Child-friendly urban practices as emergent place-based neoliberal subjectivation?
Urban Stud. **61** (12), 2349 - 2369 [10.1177/00420980241235781](https://doi.org/10.1177/00420980241235781)

674. Pérez-Granados, C., Lenzner, B., **Golivets, M.**, Saul, W.-C., Jeschke, J.M., Essl, F., Peterson, G.D., Rutting, L., Latombe, G., Adriaens, T., Aldridge, D.C., Bacher, S., Bernardo-Madrid, R., Brotons, L., Díaz, F., Gallardo, B., Genovesi, P., González-Moreno, P., **Kühn, I.**, Kutleša, P., Leung, B., Liu, C., Pagitz, K., Pastor, T., Pauchard, A., Rabitsch, W., Robertson, P., Roy, H.E., Seebens, H., Solarz, W., Starfinger, U., Tanner, R., Vilà, M., Roura-Pascual, N. (2024):
European scenarios for future biological invasions
People Nat. **6** (1), 245 - 259 [10.1002/pan3.10567](https://doi.org/10.1002/pan3.10567)

675. Périat, C., Kuhn, T., Buffi, M., Corona-Ramirez, A., Fatton, M., Cailleau, G., Chain, P.S., Stanley, C.E., **Wick, L.Y.**, Bindschedler, S., Gonzalez, D., Li Richter, X.-Y., Junier, P. (2024):
Host and nonhost bacteria support bacteriophage dissemination along mycelia and abiotic dispersal networks
microLife **5**, uqae004 [10.1093/femsml/uqae004](https://doi.org/10.1093/femsml/uqae004)

676. Perkins-Kirkpatrick, S.E., Alexander, L.V., King, A.D., Kew, S.F., Philip, S.Y., Barnes, C., Maraun, D., Stuart-Smith, R.F., Jézéquel, A., **Bevacqua, E.**, Burgess, S., Fischer, E., Hegerl, G.C., Kimutai, J., Koren, G., Lawal, K.A., Min, S.-K., New, M., Odoulami, R.C., Patricola, C.M., Pinto, I., Ribes, A., Shaw, T.A., Thiery, W., Trewin, B., Vautard, R., Wehner, M., **Zscheischler, J.** (2024):
Frontiers in attributing climate extremes and associated impacts
Front. Clim. **6**, art. 1455023 [10.3389/fclim.2024.1455023](https://doi.org/10.3389/fclim.2024.1455023)

677. Pernat, N., Canavan, S., **Golivets, M.**, Hillaert, J., Itescu, Y., Jarić, I., Mann, H.M.R., Pipek, P., Preda, C., Richardson, D.M., Teixeira, H., Vaz, A.S., Groom, Q. (2024):
Overcoming biodiversity blindness: Secondary data in primary citizen science observations
Ecol. Solut. Evid. **5** (1), e12295 [10.1002/2688-8319.12295](https://doi.org/10.1002/2688-8319.12295)

678. Perović, M., Obradović, V., Zuber-Radenković, V., **Knoeller, K.**, Mitrinović, D., Čepić, Z. (2024):
The comprehensive evaluation of nitrate origin and transformation pathways in the oxic alluvial aquifer in Serbia
Environ. Sci. Pollut. Res. **31** (22), 33030 - 33046 [10.1007/s11356-024-33403-w](https://doi.org/10.1007/s11356-024-33403-w)

679. Perović, M., Obradović, V., Zuber-Radenković, V., Mitrinović, D., **Knoeller, K.**, Turk Sekulić, M. (2024):
Integrated analysis of ammonium origins in a Serbian anoxic alluvial aquifer: Insight from physicochemical, isotopic, microbiological data
Appl. Geochem. **171**, art. 106103 [10.1016/j.apgeochem.2024.106103](https://doi.org/10.1016/j.apgeochem.2024.106103)

680. **Perujo, N., Neuert, L., Fink, P., Weitere, M.** (2024):
Saturation of intracellular phosphorus uptake and prevalence of extracellular phosphorus entrapment in fluvial biofilms after long-term P pulses: Implications for river self-purification
Sci. Total Environ. **952** , art. 175976 [10.1016/j.scitotenv.2024.175976](https://doi.org/10.1016/j.scitotenv.2024.175976)
681. Petersen, C.J., Russel, D.J., Jensen, A., Branth Pedersen, A., **Banzhaf, E.**, Kaltenegger, I. (2024):
Walkable maps and policy innovation for nature: a novel methodology for understanding policy learning
Int. J. Qual. Meth. **23** , 1 - 13 [10.1177/16094069241254006](https://doi.org/10.1177/16094069241254006)
682. Pfeuffer, J., Bielow, C., Wein, S., Jeong, K., Netz, E., Walter, A., Alka, O., Nilse, L., Colaianni, P.D., McCloskey, D., Kim, J., Rosenberger, G., Bichmann, L., Walzer, M., Veit, J., Boudaud, B., **Bernt, M.**, Patikas, N., Pilz, M., Startek, M.P., Kutuzova, S., Heumos, L., Charkow, J., Sing, J.C., Feroz, A., Siraj, A., Weisser, H., Dijkstra, T.M.H., Perez-Riverol, Y., Röst, H., Kohlbacher, O., Sachsenberg, T. (2024):
OpenMS 3 enables reproducible analysis of large-scale mass spectrometry data
Nat. Methods **21** (3), 365 - 367 [10.1038/s41592-024-02197-7](https://doi.org/10.1038/s41592-024-02197-7)
683. Philipp, L.-A., **Bühler, K.**, Ulber, R., Gescher, J. (2024):
Beneficial applications of biofilms
Nat. Rev. Microbiol. **22** (5), 276 - 290 [10.1038/s41579-023-00985-0](https://doi.org/10.1038/s41579-023-00985-0)
684. Phillips, E., Picott, K., **Kümmel, S.**, Bulka, O., Edwards, E., Wang, P.-H., **Gehre, M., Nijenhuis, I.**, Lollar, B.S. (2024):
Vitamin B₁₂ as a source of variability in isotope effects for chloroform biotransformation by *Dehalobacter*
MicrobiologyOpen **13** (4), e1433 [10.1002/mbo3.1433](https://doi.org/10.1002/mbo3.1433)
685. Pienkowski, T., Keane, A., Booth, H., Kinyanda, E., Fisher, J.C., Lawrance, E., **Oh, R.**, Milner-Gulland, E.J. (2024):
Nature's contributions to social determinants of mental health and the role of conservation
One Earth **7** (7), 1213 - 1227 [10.1016/j.oneear.2024.05.004](https://doi.org/10.1016/j.oneear.2024.05.004)
686. **Pierzchalski, A., Zenclussen, A.C., Herberth, G.** (2024):
A comprehensive battery of flow cytometric immunoassays for the *in vitro* testing of chemical effects in human blood cells
Front. Immunol. **14** , art. 1327960 [10.3389/fimmu.2023.1327960](https://doi.org/10.3389/fimmu.2023.1327960)
687. Pilecky, M., Kämmer, S.K., Winter, K., Ptacnikova, R., Meador, T.B., Wassenaar, L.I., **Fink, P.**, Kainz, M.J. (2024):
Compound-specific stable isotope analyses of fatty acids indicate feeding zones of zooplankton across the water column of a subalpine lake
Oecologia **205** , 325 - 337 [10.1007/s00442-024-05574-3](https://doi.org/10.1007/s00442-024-05574-3)

688. **Pinheiro, R.B.P.**, Felix, G.M.F., Bell, J.A., Fecchio, A. (2024):
The latitudinal specialization gradient of bird-malarial parasite networks in South America: lower connectance, but more evenly distributed interactions towards the equator
Ecography **2024** (10), e06763 [10.1111/ecog.06763](https://doi.org/10.1111/ecog.06763)
689. Pitz, M., Jacops, E., **Grunwald, N.**, Ziefle, G., **Nagel, T.** (2024):
On multi-component gas migration in single-phase systems
Rock Mech. Rock Eng. **57** (6), 4251 - 4264 [10.1007/s00603-024-03838-1](https://doi.org/10.1007/s00603-024-03838-1)
690. Plos, C., Hensen, I., **Korell, L.**, **Auge, H.**, Römermann, C. (2024):
Plant species phenology differs between climate and land-use scenarios and relates to plant functional traits
Ecol. Evol. **14** (5), e11441 [10.1002/ece3.11441](https://doi.org/10.1002/ece3.11441)
691. Plunge, S., **Schürz, C.**, Čerkasova, N., **Strauch, M.**, Piniewski, M. (2024):
SWAT+ model setup verification tool: SWATdoctR
Environ. Modell. Softw. **171**, art. 105878 [10.1016/j.envsoft.2023.105878](https://doi.org/10.1016/j.envsoft.2023.105878)
692. Plunge, S., Szabó, B., **Strauch, M.**, Čerkasova, N., **Schürz, C.**, Piniewski, M. (2024):
SWAT + input data preparation in a scripted workflow: SWATprepR
Environ. Sci. Eur. **36**, art. 53 [10.1186/s12302-024-00873-1](https://doi.org/10.1186/s12302-024-00873-1)
693. Pöhlitz, J., **Schlüter, S.**, Rücknagel, J. (2024):
Short-term effects of double-layer ploughing reduced tillage on soil structure and crop yield
Soil Use Manage. **40** (2), e13043 [10.1111/sum.13043](https://doi.org/10.1111/sum.13043)
694. **Polzin, C.** (2024):
The role of visions in sustainability transformations: Exploring tensions between the *Agrarwende* vanguard vision and an established sociotechnical imaginary of agriculture in Germany
Glob. Environ. Change **84**, art. 102800 [10.1016/j.gloenvcha.2024.102800](https://doi.org/10.1016/j.gloenvcha.2024.102800)
695. Pomberger, R., **Bezama, A.** (2024):
About theoretical, technical and real recyclability. Editorial
Waste Manage. Res. **42** (9), 713 - 714 [10.1177/0734242X241267184](https://doi.org/10.1177/0734242X241267184)
696. **Pößneck, J.**, **Kabisch, S.**, Knatz Kowaltowski, D.C.C., Van Oel, C., Soliman-Junior, J., Tzortzopoulos, P., Koolwijk, J.S.J. (2024):
Knowledge sharing through scenario development: Experiences of an interdisciplinary and international research project
Interdiscip. Sci. Rev. **49** (5), 532 - 549 [10.1177/03080188241291828](https://doi.org/10.1177/03080188241291828)

697. Potapov, A.M., Chen, T.-W., Striuchkova, A.V., Alatalo, J.M., Alexandre, D., Arbea, J., Ashton, T., **Yin, R.**, Zampaulo, R.A., et al. (2024):
Global fine-resolution data on springtail abundance and community structure
Sci. Data **11**, art. 22 [10.1038/s41597-023-02784-x](https://doi.org/10.1038/s41597-023-02784-x)
698. Proesmans, W., Felten, E., Laurent, E., Albrecht, M., Cyrille, N., Labonté, A., Maurer, C., Paxton, R., **Schweiger, O.**, Szentgyörgyi, H., Vanbergen, A.J. (2024):
Urbanisation and agricultural intensification modulate plant–pollinator network structure and robustness
Funct. Ecol. **38** (3), 628 - 641 [10.1111/1365-2435.14503](https://doi.org/10.1111/1365-2435.14503)
699. Prokopciuk, N., Tarasiuk, N., **Franck, U.**, Schraufnagel, D.E., Valiulis, A., Kostantinova, M., Zielinski, T., Valiulis, A. (2024):
On the possible climatic consequences of the large oil spills in oceans
Atmosphere **15** (10), art. 1216 [10.3390/atmos15101216](https://doi.org/10.3390/atmos15101216)
700. Proß, T., Haider, S., **Auge, H.**, Bruelheide, H. (2024):
Leaf trait variation within individuals mediates the relationship between tree species richness and productivity
Oikos **2024** (2), e10255 [10.1111/oik.10255](https://doi.org/10.1111/oik.10255)
701. Protasov, O.O., Novosolova, T.M., **Hromova, Y.** (2024):
Ecological continuum and discontinuum in the river – Nuclear power station cooling pond system
Hydrobiol. J. **60** (2), 3 - 23 [10.1615/HydrobJ.v60.i2.10](https://doi.org/10.1615/HydrobJ.v60.i2.10)
702. **Purahong, W., Ji, L.,** Wu, Y.-T. (2024):
Community assembly processes of deadwood mycobiome in a tropical forest revealed by long-read third-generation sequencing
Microb. Ecol. **87** (1), art. 66 [10.1007/s00248-024-02372-5](https://doi.org/10.1007/s00248-024-02372-5)
703. **Qian, J.,** Zhang, L., **Schlink, U.,** Meng, Q., Liu, X., Jansc6, T. (2024):
High spatial and temporal resolution multi-source anthropogenic heat estimation for China
Resour. Conserv. Recycl. **203**, art. 107451 [10.1016/j.resconrec.2024.107451](https://doi.org/10.1016/j.resconrec.2024.107451)
704. **Qian, L.,** Zhao, H., **Schierz, A., Mackenzie, K., Georgi, A.** (2024):
A deep insight into perfluorooctanoic acid photodegradation using metal ion-exchanged zeolites
ACS ES&T Eng. **4** (3), 748 - 757 [10.1021/acsestengg.3c00462](https://doi.org/10.1021/acsestengg.3c00462)
705. **Qin, W., Escher, B.I., Huchthausen, J., Fu, Q., Henneberger, L.** (2024):
Species difference? Bovine, trout and human plasma protein binding of per- and polyfluoroalkyl substances
Environ. Sci. Technol. **58** (23), 9954 - 9966 [10.1021/acs.est.3c10824](https://doi.org/10.1021/acs.est.3c10824)

706. **Qin, W., Henneberger, L., Glüge, J., König, M., Escher, B.I.** (2024):
Baseline toxicity model to identify the specific and nonspecific effects of per- and polyfluoroalkyl substances in cell-based bioassays
Environ. Sci. Technol. **58** (13), 5727 - 5738 [10.1021/acs.est.3c09950](https://doi.org/10.1021/acs.est.3c09950)
707. Raab, S., Castro-Morales, K., **Hildebrandt, A.**, Heimann, M., Vonk, J.E., Zimov, N., Goeckede, M. (2024):
Small-scale hydrological patterns in a Siberian permafrost ecosystem affected by drainage
Biogeosciences **21** (10), 2571 - 2597 [10.5194/bg-21-2571-2024](https://doi.org/10.5194/bg-21-2571-2024)
708. Radeisen, E., Shao, H., Hesser, J., **Naumov, D., Wang, W., Kolditz, O.** (2024):
Modelling of preferential gas flow in saturated bentonite using a bimodal, strain-dependent pore model
Appl. Clay Sci. **249**, art. 107232 [10.1016/j.clay.2023.107232](https://doi.org/10.1016/j.clay.2023.107232)
709. Radeisen, E., Shao, H., Pitz, M., Hesser, J., **Kolditz, O., Wang, W.** (2024):
Combination of a failure index and a dilatancy-dependent permeability model in hydro-mechanically-coupled numerical simulations of argillaceous rock formations of the Callovo-Oxfordian (COx)
Rock Mech. Rock Eng. **57** (6), 4285 - 4298 [10.1007/s00603-024-03763-3](https://doi.org/10.1007/s00603-024-03763-3)
710. Rädle, V., Bleyl, S., Bisse, M., **Roland, U.** (2024):
Correlative ageing analysis of thermally treated and rejuvenated bitumen and asphalt
Case Stud. Constr. Mater. **21**, e03788 [10.1016/j.cscm.2024.e03788](https://doi.org/10.1016/j.cscm.2024.e03788)
711. Radushev, V., **Karkossa, I.**, Berg, J., **von Bergen, M., Engelmann, B., Rolle-Kampczyk, U.E.**, Blüher, M., Wagner, U., **Schubert, K.**, Rossol, M. (2024):
Dysregulated cytokine and oxidative response in hyper-glycolytic monocytes in obesity
Front. Immunol. **15**, art. 1416543 [10.3389/fimmu.2024.1416543](https://doi.org/10.3389/fimmu.2024.1416543)
712. **Rahman, K.Z.**, Al Saadi, S., Al Rawahi, M., **van Afferden, M., Bernhard, K., Friesen, J., Müller, R.A.** (2024):
Small decentralized technologies for high-strength wastewater treatment and reuse in arid and semi-arid regions
Environments **11** (7), art. 142 [10.3390/environments11070142](https://doi.org/10.3390/environments11070142)
713. Ramezani Farani, M., Lak, M., Cho, W.C., Kang, H., **Azarian, M.**, Yazdian, F., Harirchi, S., Khoshmaram, K., Alipourfard, I., Hushmandi, K., Hwang, S.-K., Huh, Y.S. (2024):
Carbon nanomaterials: a promising avenue in colorectal cancer treatment
Carbon Lett. **34** (8), 2035 - 2053 [10.1007/s42823-024-00805-2](https://doi.org/10.1007/s42823-024-00805-2)
714. **Raps, S., Bahr, L., Karkossa, I.**, Rossol, M., **von Bergen, M., Schubert, K.** (2024):
Triclosan and its alternatives, especially chlorhexidine, modulate macrophage immune response with distinct modes of action
Sci. Total Environ. **941**, art. 169650 [10.1016/j.scitotenv.2023.169650](https://doi.org/10.1016/j.scitotenv.2023.169650)

715. Rasul, M., Yahya, M., Suleman, M., Hakim, S., Mirza, B.S., Mirza, M.S., **Reitz, T., Tarkka, M.T.,** Yasmin, S. (2024):
Diversity and functional traits based indigenous rhizosphere associated phosphate solubilizing bacteria for sustainable production of rice
Front. Microbiol. **15**, art. 1470019 [10.3389/fmicb.2024.1470019](https://doi.org/10.3389/fmicb.2024.1470019)
716. Rau, F., Elsner, C., Meister, T.L., Gömer, A., **Kallies, R.,** Dittmer, U., Steinmann, E., Todt, D. (2024):
Monitoring of hepatitis E virus in wastewater can identify clinically relevant variants
Liver Int. **44** (3), 637 - 643 [10.1111/liv.15842](https://doi.org/10.1111/liv.15842)
717. Rauert, C., **König, M.,** Neale, P.A., Thomas, K.V., **Escher, B.I.** (2024):
Effect-based water quality assessment in an urban tributary under base flow and storm conditions
Environ. Sci. Technol. Lett. **11** (12), 1314 - 1320 [10.1021/acs.estlett.4c00866](https://doi.org/10.1021/acs.estlett.4c00866)
718. Raulien, N., Friedrich, K., Strobel, S., Raps, S., Hecker, F., Pierer, M., Schilling, E., Lainka, E., Kallinich, T., **Baumann, S., Fritz-Wallace, K., Rolle-Kampczyk, U., von Bergen, M.,** Aigner, A., Ewe, A., Schett, G., Cross, M., Rossol, M., Wagner, U. (2024):
Glucose-oxygen deprivation constrains HMGCR function and Rac1 prenylation and activates the NLRP3 inflammasome in human monocytes
Sci. Signal. **17** (845), eadd8913 [10.1126/scisignal.add8913](https://doi.org/10.1126/scisignal.add8913)
719. Rauschkolb, R., Bucher, S.F., Hensen, I., Ahrends, A., Fernández-Pascual, E., Heubach, K., Jakubka, D., Jiménez-Alfaro, B., König, A., Koubek, T., Kehl, A., Khuroo, A.A., Lindstädter, A., Shafee, F., Mašková, T., Platonova, E., Panico, P., Plos, C., Primack, R., Rosche, C., Shah, M.A., Sporbert, M., Stevens, A.-D., Tarquini, F., Tielbörger, K., Träger, S., Vange, V., Weigelt, P., **Bonn, A.,** Freiberg, M., Knickmann, B., Nordt, B., Wirth, C., Römermann, C. (2024):
Spatial variability in herbaceous plant phenology is mostly explained by variability in temperature but also by photoperiod and functional traits
Int. J. Biometeorol. **68** (4), 761 - 775 [10.1007/s00484-024-02621-9](https://doi.org/10.1007/s00484-024-02621-9)
720. Raut, A., Ganguli, P., **Kumar, R.,** Das, B.S., Reddy, N.N., Wöhling, T. (2024):
Streamflow drought onset and severity explained by non-linear responses between climate-catchment and land surface processes
Hydrol. Process. **38** (7), e15245 [10.1002/hyp.15245](https://doi.org/10.1002/hyp.15245)
721. **Reese, M.** (2024):
The EU's new nature restoration law – now for implementation!
J. Eur. Environ. Plan. Law **21** (3-4), 361 - 364 [10.1163/18760104-21030010](https://doi.org/10.1163/18760104-21030010)

722. **Reilly-Schott, V., Gaibler, J., Bai, Y., Mier-Jimenez, A., Qasim, M., Lai, B.** (2024):
Electron leaks in biophotovoltaics: A multi-disciplinary perspective
ChemCatChem **16** (18), e202400639 [10.1002/cctc.202400639](https://doi.org/10.1002/cctc.202400639)
723. Reiner, J.E., **Korth, B.**, Edel, M. (2024):
Oxygen in the mix: Is oxic microbial electrosynthesis a potential alternative for biomass production?
ChemElectroChem **11** (20), e202400397 [10.1002/celec.202400397](https://doi.org/10.1002/celec.202400397)
724. Reiß, F., Kiefer, N., **Purahong, W.**, Borken, W., Kalkhof, S., Noll, M. (2024):
Active soil microbial composition and proliferation are directly affected by the presence of biocides from building materials
Sci. Total Environ. **912**, art. 168689 [10.1016/j.scitotenv.2023.168689](https://doi.org/10.1016/j.scitotenv.2023.168689)
725. Remih, K., Hufnagel, F., Karl, A., Durkalski-Mauldin, V., Lee, W.M., Su, Z., Rule, J., Tomanova, P., **Krieg, L., Karkossa, I., Schubert, K., von Bergen, M.**, Luckhardt, S., Ziegler, N., Kannt, A., Fontana, R., Strnad, P. (2024):
Serum proteomics can help identify new prognostic biomarkers in adults with acute liver failure
J. Hepatol. **80** (Suppl. 1), S104 [10.1016/S0168-8278\(24\)00619-6](https://doi.org/10.1016/S0168-8278(24)00619-6)
726. Resare Sahlin, K., Gordon, L.J., Lindborg, R., Piipponen, J., Van Rysselberge, P., **Rouet-Leduc, J.** (2024):
Author Correction: An exploration of biodiversity limits to grazing ruminant milk and meat production
Nat. Sustain. **7**, 1751 [10.1038/s41893-024-01498-1](https://doi.org/10.1038/s41893-024-01498-1)
727. Resare Sahlin, K., Gordon, L.J., Lindborg, R., Piipponen, J., Van Rysselberge, P., **Rouet-Leduc, J.** (2024):
An exploration of biodiversity limits to grazing ruminant milk and meat production
Nat. Sustain. **7**, 1160 - 1170 [10.1038/s41893-024-01398-4](https://doi.org/10.1038/s41893-024-01398-4)
728. **Reutter, F., Drechsler, M., Gawel, E., Lehmann, P.** (2024):
Social costs of setback distances for onshore wind turbines: A model analysis applied to the German State of Saxony
Environ. Resour. Econ. **87** (2), 437 - 463 [10.1007/s10640-023-00777-3](https://doi.org/10.1007/s10640-023-00777-3)
729. **Reutter, F., Lehmann, P.** (2024):
Environmental trade-offs of (de)centralized renewable electricity systems
Energy Sustain. Soc. **14**, art. 37 [10.1186/s13705-024-00462-3](https://doi.org/10.1186/s13705-024-00462-3)
730. **Reyes, J., Ließ, M.** (2024):
Spectral data processing for field-scale soil organic carbon monitoring
Sensors **24** (3), art. 849 [10.3390/s24030849](https://doi.org/10.3390/s24030849)

731. **Reyes, J.**, Wiedemann, W., Brand, A., Franke, J., **Ließ, M.** (2024):
Predictive monitoring of soil organic carbon using multispectral UAV imagery: a case study on a long-term experimental field
Spat. Inf. Res. **32** , 683 - 696 [10.1007/s41324-024-00589-7](https://doi.org/10.1007/s41324-024-00589-7)
732. **Reyes-Aldana, H.E.** (2024):
Restoration conundrum: between nostalgia and futuralgia, moving beyond the reference state
Restor. Ecol. **32** (1), e14071 [10.1111/rec.14071](https://doi.org/10.1111/rec.14071)
733. **Ribeiro, A.F.S.**, Santos, L., Randerson, J.T., Uribe, M.R., Alencar, A.A.C., Macedo, M.N., Morton, D.C., **Zscheischler, J.**, Silvestrini, R.A., Rattis, L., Seneviratne, S.I., Brando, P.M. (2024):
The time since land-use transition drives changes in fire activity in the Amazon-Cerrado region
Commun. Earth Environ. **5** , art. 96 [10.1038/s43247-024-01248-3](https://doi.org/10.1038/s43247-024-01248-3)
734. Richard-Cerda, J.C., Bockstiegel, M., Muñoz-Vega, E., **Knöller, K.**, Schüth, C., Schulz, S. (2024):
High-resolution monitoring and redox-potential-based solute transport modeling to partition denitrification pathways at an agricultural site
ACS ES&T Wat. **4** (11), 4917 - 4931 [10.1021/acsestwater.4c00540](https://doi.org/10.1021/acsestwater.4c00540)
735. Richards, C., Cooke, R., **Bowler, D.E.**, Boerder, K., Bates, A.E. (2024):
Bycatch-threatened seabirds disproportionally contribute to community trait composition across the world
Glob. Ecol. Conserv. **49** , e02792 [10.1016/j.gecco.2023.e02792](https://doi.org/10.1016/j.gecco.2023.e02792)
736. Richter, S., Lubashevsky, K., **Randow, J.**, Henker, S., **Buchwald, J.**, Bucher, A. (2024):
Global sensitivity analysis and uncertainty quantification for design parameters of shallow geothermal systems
Geotherm. Energy **12** , art. 8 [10.1186/s40517-024-00287-5](https://doi.org/10.1186/s40517-024-00287-5)
737. Rickels, W., Meier, F., Peterson, S., **Rühland, S.**, Thube, S., Karstensen, J., Posern, C., Wolff, C., Vafeidis, A.T., Grasse, P., Quaas, M. (2024):
The ocean carbon sink enhances countries' inclusive wealth and reduces the cost of national climate policies
Commun. Earth Environ. **5** , art. 513 [10.1038/s43247-024-01674-3](https://doi.org/10.1038/s43247-024-01674-3)
738. **Rieker, D.**, Runnel, K., Baldrian, P., Brabcová, V., Hoppe, B., Kellner, H., **Moll, J.**, Tláskal, V., Bässler, C. (2024):
How to best detect threatened deadwood fungi – Comparing metabarcoding and fruit body surveys
Biol. Conserv. **296** , art. 110696 [10.1016/j.biocon.2024.110696](https://doi.org/10.1016/j.biocon.2024.110696)

739. Rigano, L., Schmitz, M., Hollert, H., Linnemann, V., **Krauss, M.**, Pfenninger, M. (2024): Mind your tyres: The ecotoxicological impact of urban sediments on an aquatic organism *Sci. Total Environ.* **951** , art. 175597 [10.1016/j.scitotenv.2024.175597](https://doi.org/10.1016/j.scitotenv.2024.175597)
740. Rigano, L., Schmitz, M., Linnemann, V., **Krauss, M.**, Hollert, H., Pfenninger, M. (2024): Exposure to complex mixtures of urban sediments containing Tyre and Road Wear Particles (TRWPs) increases the germ-line mutation rate in *Chironomus riparius* *Aquat. Toxicol.* **281** , art. 107292 [10.1016/j.aquatox.2025.107292](https://doi.org/10.1016/j.aquatox.2025.107292)
741. Rigby, K., Berdalet, E., Berglund, C., Roger, F., Steinke, M., Saha, M., Grebner, W., Brown, E., John, U., Gamfeldt, L., **Fink, P.**, Berggren, F., Selander, E. (2024): Direct and indirect effects of copepod grazers on community structure *J. Plankton Res.* **46** (5), 515 - 524 [10.1093/plankt/fbae047](https://doi.org/10.1093/plankt/fbae047)
742. Ríos-Bonilla, K., Aga, D.S., **Lee, J.**, **König, M.**, **Qin, W.**, Cristobal, J.R., Atilla-Gokcumen, G.E., **Escher, B.I.** (2024): Neurotoxic effects of mixtures of perfluoroalkyl substances (PFAS) at environmental and human blood concentrations *Environ. Sci. Technol.* **58** (38), 16774 - 16784 [10.1021/acs.est.4c06017](https://doi.org/10.1021/acs.est.4c06017)
743. Robazza, A., **Baleeiro, F.C.F.**, **Kleinstaub, S.**, Neumann, A. (2024): Two-stage conversion of syngas and pyrolysis aqueous condensate into L-malate *Biotechnol. Biofuels Bioprod.* **17** , art. 85 [10.1186/s13068-024-02532-2](https://doi.org/10.1186/s13068-024-02532-2)
744. Robazza, A., Raya i Garcia, A., **Baleeiro, F.C.F.**, **Kleinstaub, S.**, Neumann, A. (2024): Acetate shock loads enhance CO uptake rates of anaerobic microbiomes *Microb. Biotechnol.* **17** (12), e70063 [10.1111/1751-7915.70063](https://doi.org/10.1111/1751-7915.70063)
745. **Rocha Vogel, A.**, **Kolberg, Y.**, **Schmidt, M.**, Kahlert, H., **von Tümpling, W.** (2024): Potential deterioration of chemical water quality due to trace metal adsorption onto tire and road wear particles -Environmentally representative experiments *Environ. Pollut.* **359** , art. 124571 [10.1016/j.envpol.2024.124571](https://doi.org/10.1016/j.envpol.2024.124571)
746. **Rode, J.**, Moreno Soares, T., Colléony, A., Turbe, A., Chadwick, P., **Marselle, M.** (2024): National biodiversity strategies under-utilize the potential for individual behavior change *Environ. Sci. Policy* **162** , art. 103916 [10.1016/j.envsci.2024.103916](https://doi.org/10.1016/j.envsci.2024.103916)
747. Rodgman, M.K., Anguelovski, I., **Pérez-del-Pulgar, C.**, Shokry, G., Garcia-Lamarca, M., Connolly, J.J.T., Baró, F., Triguero-Mas, M. (2024): Perceived urban ecosystem services and disservices in gentrifying neighborhoods: Contrasting views between community members and state informants *Ecosyst. Serv.* **65** , art. 101571 [10.1016/j.ecoser.2023.101571](https://doi.org/10.1016/j.ecoser.2023.101571)

748. **Rodrigues Matos, R., Jennings, E.K., Kaesler, J., Reemtsma, T., Koch, B.P., Lechtenfeld, O.J.** (2024):
Post column infusion of internal standard to LC-FT-ICR MS enables semi-quantitative comparison of dissolved organic matter in original samples
Analyst **149** (12), 3468 - 3478 [10.1039/D4AN00119B](https://doi.org/10.1039/D4AN00119B)
749. **Rodrigues-Filho, C.A.S., Costa, F.R.C., Schietti, J., Nogueira, A., Leitão, R.P., Menger, J., Borba, G., Souza Gerolamo, C., Avilla, S.S., Emilio, T., Volkmer de Castilho, C., Bastos, D.A., Rocha, E.X., Fernandes, I.O., Cornelius, C., Zuanon, J., Souza, J.L.P., Utta, A.C.S., Baccaro, F.B.** (2024):
Multi-taxa responses to climate change in the Amazon forest
Glob. Change Biol. **30** (11), e17598 [10.1111/gcb.17598](https://doi.org/10.1111/gcb.17598)
750. **Rodríguez-Sánchez, G.T., Pelayo, R.C., Soriano, P.J., Knight, T.M.** (2024):
Intraspecific variation in pollination ecology due to altitudinal environmental heterogeneity
Ecol. Evol. **14** (6), e11553 [10.1002/ece3.11553](https://doi.org/10.1002/ece3.11553)
751. **Roilo, S., Paulus, A., Alarcón-Segura, V., Kock, L., Beckmann, M., Klein, N., Cord, A.F.** (2024):
Quantifying agricultural land-use intensity for spatial biodiversity modelling: implications of different metrics and spatial aggregation methods
Landsc. Ecol. **39** (3), art. 55 [10.1007/s10980-024-01853-9](https://doi.org/10.1007/s10980-024-01853-9)
752. **Rojas-Serrano, F., Garcia-Garcia, G., Parra-López, C., Sayadi-Gmada, S.** (2024):
Sustainability, circular economy and bioeconomy: A conceptual review and integration into the notion of sustainable circular bioeconomy
New Medit **23** (2), 3 - 22 [10.30682/nm2402a](https://doi.org/10.30682/nm2402a)
753. **Rojo-Nieto, E., Wernicke, T., Muz, M., Jahnke, A.** (2024):
From trophic magnification factors to multimedia activity ratios: chemometers as versatile tools to study the fate of hydrophobic organic compounds in aquatic ecosystems
Environ. Sci. Technol. **58** (47), 21046 - 21057 [10.1021/acs.est.4c07940](https://doi.org/10.1021/acs.est.4c07940)
754. **Romanelli, F., Bauer, M., Fink, B., Zenclussen, A.C., Meyer, N.** (2024):
Exploring the importance of estrogen receptor α in mast cells throughout pregnancy: Insights from a mouse model
Placenta **154**, e25 - e26 [10.1016/j.placenta.2024.07.128](https://doi.org/10.1016/j.placenta.2024.07.128)
755. **Romanelli, F., Zenclussen, A.C., Meyer, N.** (2024):
Bisphenol a negatively impacts cellular vascularization processes related to early pregnancy
FEBS Open Bio **14** (S1), 46 - 46 [10.1002/2211-5463.13792](https://doi.org/10.1002/2211-5463.13792)

756. **Romanelli, F.,** Zenclussen, M.L., **Zenclussen, A.C., Meyer, N.** (2024): Carbon monoxide exposure does not improve the *in vitro* fertilization rate of oocytes obtained from heterozygous *Hmox1* knockout mice
Int. J. Fertil. Steril. **18** (1), 76 - 80 [10.22074/ijfs.2023.1982726.1411](https://doi.org/10.22074/ijfs.2023.1982726.1411)
757. Romano, P., Simonetti, S., Gambi, M.C., **Luckenbach, T.,** Zupo, V., Corsi, I. (2024): Preliminary investigation on the potential involvement of an ABC-like gene in *Halomicronema metazoicum* (Cyanobacteria) tolerance to low seawater pH in an ocean acidification scenario
Mar. Pollut. Bull. **205** , art. 116584 [10.1016/j.marpolbul.2024.116584](https://doi.org/10.1016/j.marpolbul.2024.116584)
758. Römer, C.I., Ashauer, R., **Escher, B.I.,** Höfer, K., Muehlebach, M., Sadeghi-Tehran, P., Sherborne, N., Buchholz, A. (2024): Fate of synthetic chemicals in the agronomic insect pest *Spodoptera littoralis*: experimental feeding-contact assay and toxicokinetic model
J. Econ. Entomol. **117** (3), 982 - 992 [10.1093/jee/toae083](https://doi.org/10.1093/jee/toae083)
759. Romero-Cuellar, J., Arabzadeh, R., Craig, J.R., Tolson, B.A., **Mai, J.** (2024): A multi-model evaluation of probabilistic streamflow predictions via residual error modelling
J. Hydrol. **635** , art. 131152 [10.1016/j.jhydrol.2024.131152](https://doi.org/10.1016/j.jhydrol.2024.131152)
760. **Römerscheid, M., Paschke, A.,** Schüürmann, G. (2024): Survey of Appearance and temporal concentrations of polar organic pollutants in Saxon waters
Heliyon **10** (1), e23378 [10.1016/j.heliyon.2023.e23378](https://doi.org/10.1016/j.heliyon.2023.e23378)
761. Romphophak, P., **Faikhaw, O.,** Sairiam, S., Thuptimjang, P., Coufort-Saudejaud, C. (2024): Removal of microplastics and nanoplastics in water treatment processes: A systematic literature review
J. Water Process Eng. **64** , art. 105669 [10.1016/j.jwpe.2024.105669](https://doi.org/10.1016/j.jwpe.2024.105669)
762. **Rosa, L.F.M., Röhring, K., Harnisch, F.** (2024): Electrolysis of medium chain carboxylic acids to aviation fuel at technical scale
Fuel **356** , art. 129590 [10.1016/j.fuel.2023.129590](https://doi.org/10.1016/j.fuel.2023.129590)
763. Rosado, D., **Fárez-Román, V.,** Müller, F., Nambi, I., Fohrer, N. (2024): Rethinking urban water management through Drivers-Pressures-States-Impacts-Responses framework application in Chennai, India
Environ. Manage. **74** (5), 970 - 988 [10.1007/s00267-024-02022-z](https://doi.org/10.1007/s00267-024-02022-z)

764. **Rouet-Leduc, J.**, van der Plas, F., **Bonn, A.**, Helmer, W., **Marselle, M.R.**, von Essen, E., **Pe'er, B.G.** (2024):
Exploring the motivation and challenges for land-users engaged in sustainable grazing in Europe
Land Use Pol. **141** , art. 107146 [10.1016/j.landusepol.2024.107146](https://doi.org/10.1016/j.landusepol.2024.107146)
765. Roura-Pascual, N., Saul, W.-C., Pérez-Granados, C., Rutting, L., Peterson, G.D., Latombe, G., Essl, F., Adriaens, T., Aldridge, D.C., Bacher, S., Bernardo-Madrid, R., Brotons, L., Diaz, F., Gallardo, B., Genovesi, P., **Golivets, M.**, González-Moreno, P., Hall, M., Kutlesa, P., Lenzner, B., Liu, C., Pagitz, K., Pastor, T., Rabitsch, W., Robertson, P., Roy, H.E., Seebens, H., Solarz, W., Starfinger, U., Tanner, R., Vilà, M., Leung, B., Garcia-Lozano, C., Jeschke, J.M. (2024):
A scenario-guided strategy for the future management of biological invasions
Front. Ecol. Environ. **22** (4), e2725 [10.1002/fee.2725](https://doi.org/10.1002/fee.2725)
766. **Rozario, K.**, **Oh, R.R.Y.**, **Marselle, M.**, Schröger, E., Gillerot, L., Ponette, Q., Godbold, D., Haluza, D., Kilpi, K., Müller, D., Roeber, U., Verheyen, K., Muys, B., Müller, S., Shaw, T., **Bonn, A.** (2024):
The more the merrier? Perceived forest biodiversity promotes short-term mental health and well-being - A multicentre study
People Nat. **6** (1), 180 - 201 [10.1002/pan3.10564](https://doi.org/10.1002/pan3.10564)
767. Ruiz-Utrilla, Z.P., del-Val, E., **Equihua, J.**, Cuervo-Robayo, Á.P. (2024):
Risk of Asian hornet invasion in Mexico: a proposal for invasive species risk assessment from a spatial perspective
Biodivers. Conserv. **33** (5), 1751 - 1773 [10.1007/s10531-024-02831-y](https://doi.org/10.1007/s10531-024-02831-y)
768. Runhaar, H., **Pröbstl, F.**, **Heim, F.**, **Cardona Santos, E.**, Claudet, J., Dik, L., de Queiroz-Stein, G., Zolyomi, A., **Zinngrebe, Y.** (2024):
Mainstreaming biodiversity targets into sectoral policies and plans: A review from a Biodiversity Policy Integration perspective
Earth Syst. Gov. **20** , art. 100209 [10.1016/j.esg.2024.100209](https://doi.org/10.1016/j.esg.2024.100209)
769. Runhaar, H., **Zinngrebe, Y.** (2024):
The governance of biodiversity recovery: From global targets to sectoral action: Editorial
Earth Syst. Gov. **20** , art. 100206 [10.1016/j.esg.2024.100206](https://doi.org/10.1016/j.esg.2024.100206)
770. **Rupp, H.**, Tauchnitz, N., **Meissner, R.** (2024):
The influence of increasing mineral fertilizer application on nitrogen leaching of arable land and grassland - results of a long-term lysimeter study
Front. Soil Sci. **4** , art. 1345073 [10.3389/fsoil.2024.1345073](https://doi.org/10.3389/fsoil.2024.1345073)

771. **Rynek, R.,** Tekman, M.B., **Rummel, C.,** Bergmann, M., **Wagner, S., Jahnke, A., Reemtsma, T.** (2024):
Hotspots of floating plastic particles across the North Pacific Ocean
Environ. Sci. Technol. **58** (9), 4302 - 4313 [10.1021/acs.est.3c05039](https://doi.org/10.1021/acs.est.3c05039)
772. **Saavedra, F., Musolff, A.,** von Freyberg, J., **Merz, R., Knöller, K., Müller, C.,** Brunner, M., **Tarasova, L.** (2024):
Winter post-droughts amplify extreme nitrate concentrations in German rivers
Environ. Res. Lett. **19** (2), art. 024007 [10.1088/1748-9326/ad19ed](https://doi.org/10.1088/1748-9326/ad19ed)
773. Saccò, M., Mammola, S., Altermatt, F., Alther, R., Bolpagni, R., Brancelj, A., Brankovits, D., Fišer, C., Gerovasileiou, V., Griebler, C., Guareschi, S., Hose, G.C., Korbel, K., Lictévout, E., Malard, F., Martínez, A., Niemiller, M.L., Robertson, A., Tanalgo, K.C., Bichuette, M.E., Borko, S., Brad, T., Campbell, M.A., Cardoso, P., Celico, F., Cooper, S.J.B., Culver, D., Di Lorenzo, T., Galassi, D.M.P., Guzik, M.T., Hartland, A., Humphreys, W.F., Ferreira, R.L., Lunghi, E., Nizzoli, D., Perina, G., Raghavan, R., Richards, Z., Reboleira, A.S.P.S., Rohde, M.M., Sánchez Fernández, D., **Schmidt, S.I.,** van der Heyde, M., Weaver, L., White, N.E., Zigmajster, M., Hogg, I., Ruhi, A., Gagnon, M.M., Allentoft, M.E., Reinecke, R. (2024):
Groundwater is a hidden global keystone ecosystem
Glob. Change Biol. **30** (1), e17066 [10.1111/gcb.17066](https://doi.org/10.1111/gcb.17066)
774. **Sadr, M., Esmaeili Aliabadi, D.,** Avşar, B., **Thrän, D.** (2024):
Assessing the impact of seasonality on bioenergy production from energy crops in Germany, considering just-in-time philosophy
Biofuels Bioprod. Biorefining **18** (4), 883 - 898 [10.1002/bbb.2602](https://doi.org/10.1002/bbb.2602)
775. **Sadr, M., Esmaeili Aliabadi, D., Jordan, M., Thrän, D.** (2024):
A bottom-up regional potential assessment of bioenergy with carbon capture and storage in Germany
Environ. Res. Lett. **19** (11), art. 114047 [10.1088/1748-9326/ad7edd](https://doi.org/10.1088/1748-9326/ad7edd)
776. **Sadr, M., Esmaeili Aliabadi, D.,** Wollnik, R., **Thrän, D.** (2024):
Navigating the combined potential of BECCS and forest-based solutions from the German bioenergy system perspective to achieve net-zero emissions
32nd European Biomass Conference and Exhibition, 24-27 June, Marseille, France
EUBCE Proceedings
ETA-Florence Renewable Energies, Florence, p. 352
- 356 [10.5071/32ndEUBCE2024-2BV.9.4](https://doi.org/10.5071/32ndEUBCE2024-2BV.9.4)
777. **Saeidi, N.,** Lai, A., **Harnisch, F.,** Sigmund, G. (2024):
A FAIR comparison of activated carbon, biochar, cyclodextrins, polymers, resins, and metal organic frameworks for the adsorption of per- and polyfluorinated substances
Chem. Eng. J. **498** , art. 155456 [10.1016/j.cej.2024.155456](https://doi.org/10.1016/j.cej.2024.155456)

778. Sakhaee, A., Scholten, T., Taghizadeh-Mehrjardi, R., **Ließ, M.**, Don, A. (2024):
Spatial prediction of organic matter quality in German agricultural topsoils
Agriculture-Basel **14** (8), art. 1298 [10.3390/agriculture14081298](https://doi.org/10.3390/agriculture14081298)
779. Salvestrini, S., Fenti, A., **Qian, L.**, **Kopinke, F.-D.** (2024):
Oxidation of organic pollutants over MnO₂ in cold water assisted by peroxydisulfate
Chem. Eng. J. **479**, art. 147170 [10.1016/j.cej.2023.147170](https://doi.org/10.1016/j.cej.2023.147170)
780. Sánchez-Gómez, A., Bieger, K., **Schürz, C.**, Martínez-Pérez, S., Rathjens, H.,
Molina-Navarro, E. (2024):
Hydrovars: an R tool to collect hydrological variables
J. Hydroinform. **26** (5), 1150 - 1166 [10.2166/hydro.2024.293](https://doi.org/10.2166/hydro.2024.293)
781. Sandner, T.M., Brand, M.J., Hickler, M., **Korell, L.**, Matthies, D. (2024):
Local adaptation of a generalist hemiparasitic plant to one of its potential host plants
Oikos **2024** (9), e10330 [10.1111/oik.10330](https://doi.org/10.1111/oik.10330)
782. **Saneesh, C.S.**, Anjaneyulu, P., Kumar, M.A., Sharma, H., Rao, B.R.P., **Ladouceur, E.**,
Knight, T.M. (2024):
Enhancing ecosystem services through collaborative grass removal and fire exclusion in
the Eastern Ghats
Biotropica **56** (1), 4 - 17 [10.1111/btp.13269](https://doi.org/10.1111/btp.13269)
783. Santangeli, M., Steininger-Mairinger, T., **Vetterlein, D.**, Hann, S., Oburger, E. (2024):
Maize (*Zea mays* L.) root exudation profiles change in quality and quantity during plant
development - A field study
Plant Sci. **338**, art. 111896 [10.1016/j.plantsci.2023.111896](https://doi.org/10.1016/j.plantsci.2023.111896)
784. Sarmiento Cabral, J., Mendoza-Ponce, A., Pinto da Silva, A., Oberpriller, J.,
Mimet, A., Kieslinger, J., Berger, T., Blechschmidt, J., Brönnner, M., Classen, A.,
Fallert, S., Hartig, F., Hof, C., Hoffmann, M., Knoke, T., Krause, A., Lewerentz,
A., Pohle, P., Raeder, U., Rammig, A., Redlich, S., Rubanschi, S., Stetter, C.,
Weisser, W., **Vedder, D.**, Verburg, P.H., Zurell, D. (2024):
The road to integrate climate change projections with regional land-use–biodiversity
models
People Nat. **6** (5), 1716 - 1741 [10.1002/pan3.10472](https://doi.org/10.1002/pan3.10472)
785. Sarneel, J.M., Hefting, M.M., Sandén, T., van den Hoogen, J., Routh, D.,
Adhikari, B.S., Alatalo, J.M., Aleksanyan, A., Althuizen, I.H.J., **Rebmann, C.**, Scheffers,
B.R., Schmidt, I., et al. (2024):
Reading tea leaves worldwide: Decoupled drivers of initial litter decomposition mass-loss
rate and stabilization
Ecol. Lett. **27** (5), e14415 [10.1111/ele.14415](https://doi.org/10.1111/ele.14415)

786. **Sarrazin, F.J., Attinger, S., Kumar, R.** (2024):
Gridded dataset of nitrogen and phosphorus point sources from wastewater in Germany (1950–2019)
Earth Syst. Sci. Data **16** (10), 4673 - 4708 [10.5194/essd-16-4673-2024](https://doi.org/10.5194/essd-16-4673-2024)
787. **Sattler, C., Schrader, J., Hüttner, M.-L., Henle, K.** (2024):
Effects of management, habitat and landscape characteristics on biodiversity of orchard meadows in Central Europe: A brief review
Nat. Conserv.-Bulgaria **55**, 103 - 134 [10.3897/natureconservation.55.108688](https://doi.org/10.3897/natureconservation.55.108688)
788. Scales, B.S., Hassenrück, C., Moldaenke, L., Hassa, J., Rückert-Reed, C., **Rummel, C., Völkner, C., Rynek, R.**, Busche, T., Kalinowski, J., **Jahnke, A., Schmitt-Jansen, M., Wendt-Potthoff, K.**, Oberbeckmann, S. (2024):
Hunting for pigments in bacterial settlers of the Great Pacific Garbage Patch
Environ. Microbiol. **26** (6), e16639 [10.1111/1462-2920.16639](https://doi.org/10.1111/1462-2920.16639)
789. Schäfer, J., Winiwarter, L., Weiser, H., Novotný, J., Höfle, B., Schmidtlein, S., **Henniger, H.**, Krok, G., Stereńczak, K., Fassnacht, F.E. (2024):
Assessing the potential of synthetic and *ex situ* airborne laser scanning and ground plot data to train forest biomass models
Forestry **97** (4), 512 - 530 [10.1093/forestry/cpad061](https://doi.org/10.1093/forestry/cpad061)
790. Scherzinger, F., **Schädler, M., Reitz, T., Yin, R., Auge, H., Merbach, I., Roscher, C., Harpole, W.S., Blagodatskaya, E.**, Siebert, J., Ciobanu, M., Marder, F., Eisenhauer, N., Quaas, M. (2024):
Sustainable land management enhances ecological and economic multifunctionality under ambient and future climate
Nat. Commun. **15**, art. 4930 [10.1038/s41467-024-48830-z](https://doi.org/10.1038/s41467-024-48830-z)
791. **Schicketanz, J., Kabisch, S.**, Bagoly-Simó, P., Lakes, T. (2024):
Factors that are perceived as supporting or hindering active school travel (AST): go-along interviews with primary school children and their parents
Child. Geogr. **22** (2), 217 - 233 [10.1080/14733285.2023.2269104](https://doi.org/10.1080/14733285.2023.2269104)
792. Schierano-Marotti, G., Altamirano, G.A., Oddie, S., Gomez, A.L., **Meyer, N.**, Muñoz-de-Toro, M., **Zenclussen, A.C.**, Rodríguez, H.A., Kass, L. (2024):
Branching morphogenesis of the mouse mammary gland after exposure to benzophenone-3
Toxicol. Appl. Pharmacol. **484**, art. 116868 [10.1016/j.taap.2024.116868](https://doi.org/10.1016/j.taap.2024.116868)
793. **Schlenker, A., Brauns, M., Fink, P.**, Lorenz, A.W., **Weitere, M.** (2024):
Long-term recovery of benthic food webs after stream restoration
Sci. Total Environ. **923**, art. 171499 [10.1016/j.scitotenv.2024.171499](https://doi.org/10.1016/j.scitotenv.2024.171499)

794. **Schlenker, A., Brauns, M., Fink, P., Weitere, M.** (2024):
Beyond biomass: Resource effects on primary production and consumer nutrient assimilation in streams
Freshw. Biol. **69** (10), 1353 - 1363 [10.1111/fwb.14310](https://doi.org/10.1111/fwb.14310)
795. Schlüter, M., Hertz, T., Mancilla García, M., **Banitz, T., Grimm, V.**, Johansson, L.-G., Lindkvist, E., Martínez-Peña, R., Radosavljevic, S., Wennberg, K., Ylikoski, P. (2024):
Navigating causal reasoning in sustainability science
Ambio **53** (11), 1618 - 1631 [10.1007/s13280-024-02047-y](https://doi.org/10.1007/s13280-024-02047-y)
796. **Schmidt, C., Kühnel, D., Materić, D., Stubenrauch, J., Schubert, K., Luo, A., Wendt-Potthoff, K., Jahnke, A.** (2024):
A multidisciplinary perspective on the role of plastic pollution in the triple planetary crisis
Environ. Int. **193**, art. 109059 [10.1016/j.envint.2024.109059](https://doi.org/10.1016/j.envint.2024.109059)
797. **Schmidt, L.**, Tüting, C., Kyrilis, F.L., Hamdi, F., Semchonok, D.A., Hause, G., Meister, A., Ihling, C., Stubbs, M.T., Sinz, A., Kastiris, P.L. (2024):
Delineating organizational principles of the endogenous L-A virus by cryo-EM and computational analysis of native cell extracts
Commun. Biol. **7**, art. 557 [10.1038/s42003-024-06204-7](https://doi.org/10.1038/s42003-024-06204-7)
798. **Schmidt, S.I.**, Fluksová, H., Grill, S., Kopáček, J. (2024):
The significance of tree height as a predictor of tree mortality during bark beetle outbreaks in a small catchment
Forests **15** (5), art. 803 [10.3390/f15050803](https://doi.org/10.3390/f15050803)
799. **Schmidt, S.I., Schröder, T.**, Kutzner, R.D., Laue, P., Bernert, H., Stelzer, K., **Friese, K., Rinke, K.** (2024):
Evaluating satellite-based water quality sensing of inland waters on basis of 100+ German water bodies using 2 different processing chains
Remote Sens. **16**, art. 3416 [10.3390/rs16183416](https://doi.org/10.3390/rs16183416)
800. **Schmidt, S.I.**, Svátková, M., Kodeš, V., Shabarova, T. (2024):
Correlations between the increase in atmospheric CO₂ and temperature, and the subsequent increase in silica, and groundwater organisms
Sci. Total Environ. **955**, art. 176970 [10.1016/j.scitotenv.2024.176970](https://doi.org/10.1016/j.scitotenv.2024.176970)
801. **Schmidt, T., Schrön, M., Li, Z.**, Francke, T., **Zacharias, S., Hildebrandt, A., Peng, J.** (2024):
Comprehensive quality assessment of satellite- and model-based soil moisture products against the COSMOS network in Germany
Remote Sens. Environ. **301**, art. 113930 [10.1016/j.rse.2023.113930](https://doi.org/10.1016/j.rse.2023.113930)

802. Schmidtke, L., van Emmerik, T.H.M., Pinto, R.B., Pinto, L.J., **Schmidt, C., Wendt-Potthoff, K.**, Kirschke, S. (2024):
Sustainable implementation of citizen-based plastic monitoring of fresh waters in Western Africa
Sustainability **16** (12), art. 10007 [10.3390/su162210007](https://doi.org/10.3390/su162210007)
803. Schmitt, J., Offermann, F., **Ribeiro, A.F.S.**, Finger, R. (2024):
Drought risk management in agriculture: A copula perspective on crop diversification
Agric. Econ. **55** (5), 823 - 847 [10.1111/agec.12851](https://doi.org/10.1111/agec.12851)
804. Schmitt, T.M., Haensel, M., **Kaim, A.**, Lee, H., Reinermann, S., Koellner, T. (2024):
Recreation and its synergies and trade-offs with other ecosystem services of Alpine and pre-Alpine grasslands
Reg. Envir. Chang. **24** (2), art. 57 [10.1007/s10113-024-02213-8](https://doi.org/10.1007/s10113-024-02213-8)
805. Schneider, J.M., Delzeit, R., **Neumann, C.**, Heimann, T., **Seppelt, R.**, Schuenemann, F., Söder, M., Mauser, W., Zabel, F. (2024):
Effects of profit-driven cropland expansion and conservation policies
Nat. Sustain. **7** (10), 1335 - 1347 [10.1038/s41893-024-01410-x](https://doi.org/10.1038/s41893-024-01410-x)
806. **Scholz, M.**, Luger, P., Fink, S., Bühlmann, I., Caponi, F., Frey, D. (2024):
13. Auenökologischer Workshop zur angewandten Auenforschung und Auenrenaturierung [13th Flood Plain Ecology Workshop on applied flood plain research and flood plain renaturation]
Wasser und Abfall **26** (6), 53 - 54 [10.1007/s35152-024-1867-6](https://doi.org/10.1007/s35152-024-1867-6)
807. **Schröder, T., Schmidt, S.I.**, Kutzner, R.D., Bernert, H., Stelzer, K., **Friese, K., Rinke, K.** (2024):
Exploring spatial aggregations and temporal windows for water quality match-up analysis using Sentinel-2 MSI and Sentinel-3 OLCI data
Remote Sens. **16** (15), art. 2798 [10.3390/rs16152798](https://doi.org/10.3390/rs16152798)
808. Schrodtt, F., Vernham, G., Bailey, J., Field, R., Gordon, J.E., Gray, M., Hjort, J., Hoorn, C., Hunter Jr., M.L., Larwood, J., **Lausch, A.**, Monge-Ganuzas, M., Miller, S., van Ree, D., Seijmonsbergen, A.C., Zarnetske, P.L., Kissling, W.D. (2024):
The status and future of essential geodiversity variables
Philos. Trans. R. Soc. A-Math. Phys. Eng. Sci. **382** (2269), art. 20230052 [10.1098/rsta.2023.0052](https://doi.org/10.1098/rsta.2023.0052)
809. **Schrön, M.**, Rasche, D., Weimar, J., Köhli, M., Herbst, K., **Boehrer, B., Hertle, L., Kögler, S., Zacharias, S.** (2024):
Buoy-based detection of low-energy cosmic-ray neutrons to monitor the influence of atmospheric, geomagnetic, and heliospheric effects
Earth Space Sci. **11** (6), e2023EA003483 [10.1029/2023ea003483](https://doi.org/10.1029/2023ea003483)

810. **Schubert, M.,** Kopitz, J., **Taeglich, S.,** Lucks, C., **Knoeller, K.** (2024):
Radio-sulphur as groundwater residence time tracer – Adapting the ³⁵S extraction
approach for water samples rich in sulphate
J. Environ. Radioact. **280** , art. 107553 [10.1016/j.jenvrad.2024.107553](https://doi.org/10.1016/j.jenvrad.2024.107553)
811. **Schubert, M.,** Lin, M., Clark, J.F., Kralik, M., Damatto, S., Copia, L., Terzer-Wassmuth,
S., Harjung, A. (2024):
Short-lived natural radionuclides as tracers in hydrogeological studies – A review
Sci. Total Environ. **920** , art. 170800 [10.1016/j.scitotenv.2024.170800](https://doi.org/10.1016/j.scitotenv.2024.170800)
812. **Schuetze, C., Koedel, U., Herrmann, T.M., Liang, C., Dietrich, P.** (2024):
Editorial: Citizen science and climate services in cities: current state, new approaches and
future avenues for enhancing urban climate resilience
Front. Earth Sci. **12** , art. 1461334 [10.3389/feart.2024.1461334](https://doi.org/10.3389/feart.2024.1461334)
813. Schulz, V., Galea, D., **Herzberg, M.,** Nies, D.H. (2024):
Protecting the Achilles heel: three FOL_I-type GTP-cyclohydrolases needed
for full growth of metal-resistant *Cupriavidus metallidurans* under a variety of conditions
J. Bacteriol. **206** (2), e00395-23 [10.1128/jb.00395-23](https://doi.org/10.1128/jb.00395-23)
814. Schulz, V., Galea, D., Schleuder, G., Strohmeyer, P., Große, C., **Herzberg, M.,** Nies,
D.H. (2024):
The efflux system CdfX exports zinc that cannot be transported by ZntA in *Cupriavidus*
metallidurans
J. Bacteriol. **206** (11), e00299-24 [10.1128/jb.00299-24](https://doi.org/10.1128/jb.00299-24)
815. **Schulze, T.,** Neale, P.A., **Ahlheim, J., Beckers, L.-M., König, M., Krüger, J., Petre,**
M., Piotrowska, A., Schlichting, R., Schmidt, S., Krauss, M., Escher, B.I. (2024):
A guidance for the enrichment of micropollutants from wastewater by solid-phase
extraction before bioanalytical assessment
Environ. Sci. Eur. **36** , art. 165 [10.1186/s12302-024-00990-x](https://doi.org/10.1186/s12302-024-00990-x)
816. Schunck, F., **Kodritsch, B., Krauss, M., Busch, W.,** Focks, A. (2024):
Integrating time-resolved *nrf2* gene-expression data into a full GUTS model as a proxy
for toxicodynamic damage in zebrafish embryo
Environ. Sci. Technol. **58** (50), 21942 - 21953 [10.1021/acs.est.4c06267](https://doi.org/10.1021/acs.est.4c06267)
817. **Schunck, F., Liess, M.** (2024):
Ultra-low esfenvalerate exposure may disrupt interspecific competition
Sci. Total Environ. **906** , art. 167455 [10.1016/j.scitotenv.2023.167455](https://doi.org/10.1016/j.scitotenv.2023.167455)
818. **Schunck, F.,** Wiedermann, M., Heitzig, J., Donges, J.F. (2024):
A dynamic network model of societal complexity and resilience inspired by Tainter's
theory of collapse
Entropy **26** (2), art. 98 [10.3390/e26020098](https://doi.org/10.3390/e26020098)

819. Schürmann, J., Fischer, M.A., **Herzberg, M., Reemtsma, T.**, Strommenger, B., Werner, G., Schuster, C.F., Layer-Nicolaou, F. (2024):
The genes *mgtE* and *spoVG* are involved in zinc tolerance of *Staphylococcus aureus*
Appl. Environ. Microb. **90** (6), e00453-24 [10.1128/aem.00453-24](https://doi.org/10.1128/aem.00453-24)
820. **Schübler, C.**, Nicolai, S., Stoll-Kleemann, S., **Bartkowski, B.** (2024):
Moral disengagement in the media discourses on meat and dairy production systems
Appetite **196**, art. 107269 [10.1016/j.appet.2024.107269](https://doi.org/10.1016/j.appet.2024.107269)
821. Secchi, D., **Grimm, V.**, Herath, D.B., Homberg, F. (2024):
Modeling and theorizing with agent-based sustainable development
Environ. Modell. Softw. **171**, art. 105891 [10.1016/j.envsoft.2023.105891](https://doi.org/10.1016/j.envsoft.2023.105891)
822. **Selsam, P., Bumberger, J.**, Wellmann, T., Pause, M., **Gey, R.**, Borg, E., **Lausch, A.** (2024):
Ecosystem Integrity Remote Sensing - Modelling and Service Tool - ESIS/Imalys
Remote Sens. **16** (7), art. 1139 [10.3390/rs16071139](https://doi.org/10.3390/rs16071139)
823. **Selzer, P., Shao, H.**, Behrens, C., **Lehmann, C.**, Seydewitz, R., **Lu, R.**, Kreye, P., Rühaak, W., **Kolditz, O.** (2024):
The value of simplified models of radionuclide transport for the safety assessment of nuclear waste repositories: A benchmark study
J. Contam. Hydrol. **267**, art. 104417 [10.1016/j.jconhyd.2024.104417](https://doi.org/10.1016/j.jconhyd.2024.104417)
824. Senapati, A., Mertel, A., Schlechte-Welnicz, W., **Calabrese, J.M.** (2024):
Estimating cross-border mobility from the difference in peak-timing: A case study of Poland–Germany border regions
Mathematics **12** (13), art. 2065 [10.3390/math12132065](https://doi.org/10.3390/math12132065)
825. **Shahid, N., Siddique, A., Liess, M.** (2024):
Synergistic interaction between a toxicant and food stress is further exacerbated by temperature
Environ. Pollut. **363, Part 1**, art. 125109 [10.1016/j.envpol.2024.125109](https://doi.org/10.1016/j.envpol.2024.125109)
826. **Shahid, N., Siddique, A., Liess, M.** (2024):
Predicting the combined effects of multiple stressors and stress adaptation in *Gammarus pulex*
Environ. Sci. Technol. **58** (29), 12899 - 12908 [10.1021/acs.est.4c02014](https://doi.org/10.1021/acs.est.4c02014)
827. Shan, Y., Hao, H., Yin, Y., Hu, N., Zhan, M., Ma, D., Yin, Y., Jiao, W., **Wick, L.Y.** (2024):
Effects of temperature and DC electric fields on perfluorooctanoic acid sorption kinetics to activated carbon
Environ. Sci. Technol. **58** (13), 5987 - 5995 [10.1021/acs.est.3c10590](https://doi.org/10.1021/acs.est.3c10590)

828. **Shan, Y.**, Yin, Y., Wei, J., Ma, D., Zhan, M., Yin, Y., Yang, L., Jiao, W., **Wick, L.Y.** (2024):
Mechanisms of heating-electrokinetic co-driven perfluorooctanoic acid (PFOA) adsorption on zeolite
J. Environ. Sci. **146** , 264 - 271 [10.1016/j.jes.2023.10.024](https://doi.org/10.1016/j.jes.2023.10.024)

829. Shao, H., Hesser, J., **Wang, W.**, **Kolditz, O.** (2024):
Modeling thermally driven migration of brine in bedded salt
Geomech. Energy Environ. **38** , art. 100542 [10.1016/j.gete.2024.100542](https://doi.org/10.1016/j.gete.2024.100542)

830. Shao, H., Radeisen, E., Hesser, J., **Wang, W.**, **Kolditz, O.** (2024):
Coupled processes at micro- and macroscopic levels for long-term performance assessment studies of nuclear waste repositories
Minerals **14** (5), art. 453 [10.3390/min14050453](https://doi.org/10.3390/min14050453)

831. **Sheard, J.K.**, Adriaens, T., **Bowler, D.E.**, **Büermann, A.**, Calaghan, C.T., Camprasse, E.C.M., **Chowdhury, S.**, **Engel, T.**, **Finch, E.A.**, **von Gönner, J.**, Hsing, P.-Y., Mikula, P., **Oh, R.R.Y.**, **Peters, B.**, Phartyal, S.S., Pocock, M.J.O., Wäldchen, J., **Bonn, A.** (2024):
Emerging technologies in citizen science and potential for insect monitoring
Philos. Trans. R. Soc. B-Biol. Sci. **379** (1904), art. 20230106 [10.1098/rstb.2023.0106](https://doi.org/10.1098/rstb.2023.0106)

832. Sheer, A., Sardar, M.F., Younas, F., Zhu, P., Noreen, S., **Mehmood, T.**, Farooqi, Z.U.R., Fatima, S., Guo, W. (2024):
Trends and social aspects in the management and conversion of agricultural residues into valuable resources: A comprehensive approach to counter environmental degradation, food security, and climate change
Bioresour. Technol. **394** , art. 130258 [10.1016/j.biortech.2023.130258](https://doi.org/10.1016/j.biortech.2023.130258)

833. Shi, B., Delgado-Baquerizo, M., Knapp, A.K., Smith, M.D., Reed, S., Osborne, B., Carrillo, Y., Maestre, F.T., Zhu, Y., Chen, A., Wilkins, K., Holdrege, M.C., Kulmatiski, A., Picon-Cochard, C., **Roscher, C.**, Power, S., Byrne, K.M., Churchill, A.C., Jentsch, A., Henry, H.A.L., Beard, K.H., Schuchardt, M.A., Eisenhauer, N., Otfinowski, R., Hautier, Y., Shen, H., Wang, Y., Wang, Z., Wang, C., Cusack, D.F., Petraglia, A., Carbognani, M., Forte, T.G.W., Flory, L., Hou, P., Zhang, T., Gao, W., Sun, W. (2024):
Aridity drives the response of soil total and particulate organic carbon to drought in temperate grasslands and shrublands
Sci. Adv. **10** (40), eadq2654 [10.1126/sciadv.adq2654](https://doi.org/10.1126/sciadv.adq2654)

834. Shi, Q., Cao, M., Xiong, Y., Kaur, P., **Fu, Q.**, Smith, A., Yates, R., Gan, J. (2024):
Alternating water sources to minimize contaminant accumulation in food plants from treated wastewater irrigation
Water Res. **255** , art. 121504 [10.1016/j.watres.2024.121504](https://doi.org/10.1016/j.watres.2024.121504)

835. Shi, X., Ma, C., Gustave, W., Orr, M., **Sritongchuay, T.**, Yuan, Z., Wang, M., Zhang, X., Zhou, Q., Huang, Y., Luo, A., Zhu, C. (2024):
Effects of arsenic and selenium pollution on wild bee communities in the agricultural landscapes
Sci. Total Environ. **907** , art. 168052 [10.1016/j.scitotenv.2023.168052](https://doi.org/10.1016/j.scitotenv.2023.168052)
836. **Shikhani, M.**, Feldbauer, J., Ladwig, R., Mercado-Bettin, D., Moore, T.N., Gevorgyan, A., Misakyan, A., **Mi, C.**, **Schultze, M.**, **Boehrer, B.**, **Shatwell, T.**, Barfus, K., **Rinke, K.** (2024):
Combining a multi-lake model ensemble and a multi-domain CORDEX climate data ensemble for assessing climate change impacts on Lake Sevan
Water Resour. Res. **60** (11), e2023WR036511 [10.1029/2023wr036511](https://doi.org/10.1029/2023wr036511)
837. **Shikhani, M.**, **Reinschke, L.**, **Aurich, P.**, **Waldemer, C.**, **Koschorreck, M.**, **Boehrer, B.** (2024):
Composition of photosynthetic gas bubbles from submerged macrophytes
Water Resour. Res. **60** (1), e2022WR034010 [10.1029/2022WR034010](https://doi.org/10.1029/2022WR034010)
838. Shovon, T.A., **Auge, H.**, **Haase, J.**, Nock, C.A. (2024):
Positive effects of tree species diversity on productivity switch to negative after severe drought mortality in a temperate forest experiment
Glob. Change Biol. **30** (3), e17252 [10.1111/gcb.17252](https://doi.org/10.1111/gcb.17252)
839. **Shrestha, P.K.**, **Samaniego, L.**, **Rakovec, O.**, **Kumar, R.**, **Mi, C.**, **Rinke, K.**, **Thober, S.** (2024):
Toward improved simulations of disruptive reservoirs in global hydrological modeling
Water Resour. Res. **60** (4), e2023WR035433 [10.1029/2023WR035433](https://doi.org/10.1029/2023WR035433)
840. **Sicard, V.**, Picault, S., Andraud, M. (2024):
Pig herd management and infection transmission dynamics: a challenge for modellers
Peer Community Journal **4** , e52 [10.24072/pcjournal.403](https://doi.org/10.24072/pcjournal.403)
841. **Siddique, A.**, **Shahid, N.**, **Liess, M.** (2024):
Revealing the cascade of pesticide effects from gene to community
Sci. Total Environ. **917** , art. 170472 [10.1016/j.scitotenv.2024.170472](https://doi.org/10.1016/j.scitotenv.2024.170472)
842. **Siebert, C.**, Ionescu, D., **Mallast, U.**, Merchel, S., Merkel, B., Möller, P., Pavetich, S., Pohl, T., **Rödiger, T.**, Yechieli, Y. (2024):
A new type of submarine chimneys built of halite
Sci. Total Environ. **955** , art. 176752 [10.1016/j.scitotenv.2024.176752](https://doi.org/10.1016/j.scitotenv.2024.176752)

843. **Siebert, C., Rödiger, T., Houben, T., diDato, M., Fischer, T., Attinger, S., Kalbacher, T.** (2024):
A recipe to generate sustainably maintainable and extensible hydrogeological datasets to prepare large-scale groundwater models for multiple aquifer systems
Comput. Geosci. **28** (6), 1217 - 1232 [10.1007/s10596-024-10315-9](https://doi.org/10.1007/s10596-024-10315-9)
844. **Sievers, E., Spierenburg, M., Jhagroe, S.S., Van Oudenhoven, A.P.E.** (2024):
Place-based knowledge transfer in a local-to-global and knowledge-to-action context: key steps and facilitative factors
Ecol. Soc. **29** (3), art. 8 [10.5751/ES-15024-290308](https://doi.org/10.5751/ES-15024-290308)
845. **Silva, I., Calabrese, J.M.** (2024):
Emerging opportunities for wildlife conservation with sustainable autonomous transportation
Front. Ecol. Environ. **22** (2), e2697 [10.1002/fee.2697](https://doi.org/10.1002/fee.2697)
846. **Simoneit, M., Böhme, A.** (2024):
Amino reactivity-based identification of respiratory sensitizers
Naunyn-Schmiedeberg's Arch. Pharmacol. **397** (Suppl. 1),
S19 - P002 [10.1007/s00210-024-02974-3](https://doi.org/10.1007/s00210-024-02974-3)
847. **Singavarapu, B., Ul Haq, H., Darnstaedt, F., Nawaz, A., Beugnon, R., Cesarz, S., Eisenhauer, N., Du, J., Xue, K., Wang, Y., Bruelheide, H., Wubet, T.** (2024):
Influence of tree mycorrhizal type, tree species identity, and diversity on forest root-associated mycobiomes
New Phytol. **242** (4), 1691 - 1703 [10.1111/nph.19722](https://doi.org/10.1111/nph.19722)
848. **Sivaraj, S., Zscheischler, J., Buzan, J.R., Martius, O., Brönnimann, S., Vicedo-Cabrera, A.M.** (2024):
Heat, humidity and health impacts: how causal diagrams can help tell the complex story
Environ. Res. Lett. **19** (7), art. 074069 [10.1088/1748-9326/ad5a25](https://doi.org/10.1088/1748-9326/ad5a25)
849. **Skliros, D., Kostakou, M., Kokkari, C., Tsertou, M.I., Pavloudi, C., Zafeiropoulos, H., Katharios, P., Flemetakis, E.** (2024):
Unveiling emerging opportunistic fish pathogens in aquaculture: A comprehensive seasonal study of microbial composition in Mediterranean fish hatcheries
Microorganisms **12** (11), art. 2281 [10.3390/microorganisms12112281](https://doi.org/10.3390/microorganisms12112281)
850. **Slabbert, E.L., Knight, T.M., Wubet, T., Frenzel, M., Singavarapu, B., Schweiger, O.** (2024):
Climate and land use primarily drive the diversity of multi-taxonomic communities in agroecosystems
Basic Appl. Ecol. **79**, 65 - 73 [10.1016/j.baae.2024.06.003](https://doi.org/10.1016/j.baae.2024.06.003)

851. Smith, M.D., Wilkins, K.D., Holdrege, M.C., Wilfahrt, P., Collins, S.L., Knapp, A.K., **Auge, H., Roscher, C.,** Sánchez, A.M., et al. (2024):
Extreme drought impacts have been underestimated in grasslands and shrublands globally
Proc. Natl. Acad. Sci. U.S.A. **121** (4), e2309881120 [10.1073/pnas.2309881120](https://doi.org/10.1073/pnas.2309881120)

852. Snapkow, I., Smith, N.M., Arnesdotter, E., Beekmann, K., Blanc, E.B., Braeuning, A., Corsini, E., Sollner Dolenc, M., Duivenvoorde, L.P.M., Eriksen, G.S., Franko, N., Galbiati, V., Gostner, J.M., Grova, N., Gutleb, A.C., Hargitai, R., Janssen, A.W.F., Krapf, S.A., Lindeman, B., Lumniczky, K., Maddalon, A., Mollerup, S., Parráková, L., **Pierzchalski, A.,** Pieters, R.H.H., Silva, M.J., Solhaug, A., Staal, Y.C.M., Straumfors, A., Szatmári, T., Turner, J.D., Vandebriel, R.J., **Zenclussen, A.C.,** Barouki, R. (2024):
New approach methodologies to enhance human health risk assessment of immunotoxic properties of chemicals - a PARC (Partnership for the Assessment of Risk from Chemicals) project
Front. Toxicol. **6** , art. 1339104 [10.3389/ftox.2024.1339104](https://doi.org/10.3389/ftox.2024.1339104)

853. Söchting, M., **Mahecha, M.D.,** Montero, D., Scheuermann, G. (2024):
Lexcube: Interactive visualization of large earth system data cubes
IEEE Comput. Graph. Appl. **44** (1), 25 - 37 [10.1109/MCG.2023.3321989](https://doi.org/10.1109/MCG.2023.3321989)

854. **Soder-Walz, J.M., Deobald, D.,** Vicent, T., Marco-Urrea, E., **Adrian, L.** (2024):
MecE, MecB, and MecC proteins orchestrate methyl group transfer during dichloromethane fermentation
Appl. Environ. Microb. **90** (10), e00978-24 [10.1128/aem.00978-24](https://doi.org/10.1128/aem.00978-24)

855. **Sodoge, J., Kuhlicke, C., Mahecha, M.D., de Brito, M.M.** (2024):
Text mining uncovers the unique dynamics of socio-economic impacts of the 2018–2022 multi-year drought in Germany
Nat. Hazards Earth Syst. Sci. **24** (5), 1757 - 1777 [10.5194/nhess-24-1757-2024](https://doi.org/10.5194/nhess-24-1757-2024)

856. **Sodoge, J., Reckhaus, Z., Kuhlicke, C., de Brito, M.M.** (2024):
Unified in diversity: Unravelling emerging knowledge on drought impact cascades via participatory modeling
Clim. Risk Manag. **46** , art. 100652 [10.1016/j.crm.2024.100652](https://doi.org/10.1016/j.crm.2024.100652)

857. Solé, M., Brendel, S., Aldrich, A., Dauber, J., Ewald, J., Duquesne, S., Gottschalk, E., Hoffmann, J., Kuemmerlen, M., Leake, A., Matezki, S., Meyer, S., Nabel, M., Natal-da-Luz, T., Pieper, S., Piselli, D., Rigal, S., Roß-Nickoll, M., Schäffer, A., **Settele, J.,** Sigmund, G., Sotherton, N., Wogram, J., Messner, D. (2024):
Assessing in-field pesticide effects under European regulation and its implications for biodiversity: a workshop report
Environ. Sci. Eur. **36** , art. 153 [10.1186/s12302-024-00977-8](https://doi.org/10.1186/s12302-024-00977-8)

858. Soltani, S., Ferlian, O., Eisenhauer, N., **Feilhauer, H.**, Kattenborn, T. (2024):
From simple labels to semantic image segmentation: leveraging citizen science plant
photographs for tree species mapping in drone imagery
Biogeosciences **21** (11), 2909 - 2935 [10.5194/bg-21-2909-2024](https://doi.org/10.5194/bg-21-2909-2024)
859. Sonnberger, M., Pfeiffer, M., Bleicher, A., **Gross, M.** (2024):
Wake effects and temperature plumes: Coping with non-knowledge in the expansion of
wind and geothermal energy
Soc. Stud. Sci. **54** (6), 859 - 882 [10.1177/03063127241246551](https://doi.org/10.1177/03063127241246551)
860. Sonnberger, M., Pfeiffer, M., **Gross, M.** (2024):
Who owns the wind? Understanding wind energy production through a property chains
perspective
Environ. Plan. E-Nat. Space **7** (6), 2466 - 2480 [10.1177/25148486241282544](https://doi.org/10.1177/25148486241282544)
861. Soose, L.J., Rex, T., Oehlmann, J., Schiwy, A., **Krauss, M., Brack, W.**, Klimpel, S.,
Hollert, H., Jourdan, J. (2024):
One like all? Behavioral response range of native and invasive amphipods to
neonicotinoid exposure
Environ. Pollut. **356**, art. 124235 [10.1016/j.envpol.2024.124235](https://doi.org/10.1016/j.envpol.2024.124235)
862. Soriano, Y., **Carmona, E.**, Renovell, J., Picó, Y., **Brack, W., Krauss, M.**, Backhaus, T.,
Inostroza, P.A. (2024):
Co-occurrence and spatial distribution of organic micropollutants in surface waters of the
River Aconcagua and Maipo basins in Central Chile
Sci. Total Environ. **954**, art. 176314 [10.1016/j.scitotenv.2024.176314](https://doi.org/10.1016/j.scitotenv.2024.176314)
863. Souto-Veiga, R., **Groeneveld, J.**, Enright, N.J., Fontaine, J.B., Jeltsch, F. (2024):
Climate change may shift metapopulations towards unstable source-sink dynamics in a
fire-killed, serotinous shrub
Ecol. Evol. **14** (6), e11488 [10.1002/ece3.11488](https://doi.org/10.1002/ece3.11488)
864. Spinosa, A., Eleveld, M., **Mallast, U.**, Peterseil, J., Mobilia, V., Karisma, K.,
Fuentes-Monjaraz, M.A., El Serafy, G. (2024):
Automated gross primary production application for monitoring ecosystem health within
GEOSS
*2024 IEEE International Geoscience and Remote Sensing Symposium, Athens, Greece,
07-12 July 2024*
International Geoscience and Remote Sensing Symposium *IGARSS 2024*
Institute of Electrical and Electronics Engineers
(IEEE), New York, NY, p. 4544 - 4547 [10.1109/IGARSS53475.2024.10642481](https://doi.org/10.1109/IGARSS53475.2024.10642481)

865. Sponsler, D., **Dominik, C.**, Biegerl, C., **Honchar, H.**, **Schweiger, O.**, Steffan-Dewenter, I. (2024):
High rates of nectar depletion in summer grasslands indicate competitive conditions for pollinators
Oikos **2024** (9), e10495 [10.1111/oik.10495](https://doi.org/10.1111/oik.10495)
866. Springer, K., Manning, P., Boesing, A.L., Ammer, C., Fiore-Donno, A.M., Fischer, M., **Goldmann, K.**, Le Provost, G., Overmann, J., Ruess, L., Schoening, I., Seibold, S., Sikorski, J., Neyret, M. (2024):
Identifying the stand properties that support both high biodiversity and carbon storage in German forests
For. Ecol. Manage. **572**, art. 122328 [10.1016/j.foreco.2024.122328](https://doi.org/10.1016/j.foreco.2024.122328)
867. Steinert, N.J., **Cuesta-Valero, F.J.**, García-Pereira, F., de Vrese, P., Melo Aguilar, C.A., García-Bustamante, E., Jungclaus, J., González-Rouco, J.F. (2024):
Underestimated land heat uptake alters the global energy distribution in CMIP6 climate models
Geophys. Res. Lett. **51** (10), e2023GL107613 [10.1029/2023GL107613](https://doi.org/10.1029/2023GL107613)
868. Steinfurth, K., Börjesson, G., Denoroy, P., Eichler-Löbermann, B., Gans, W., Heyn, J., Hirte, J., Jansen, F., Koch, D., **Merbach, I.**, Mollier, A., Morel, C., Panten, K., Peiter, E., Poulton, P.R., **Reitz, T.**, Holton Rubæk, G., Spiegel, H., van Laak, M., von Tucher, S., Buczko, U. (2024):
Decrease in soil test phosphorus levels under omitted phosphorus fertilizer application
Soil Use Manage. **40** (3), e13088 [10.1111/sum.13088](https://doi.org/10.1111/sum.13088)
869. Steng, K., Roy, F., Kellner, H., **Moll, J.**, Tittmann, S., Frotscher, J., Döring, J. (2024):
Functional diversity of the above-ground fungal community under long-term integrated, organic and biodynamic Vineyard Management
Environ. Microbiome **19**, art. 89 [10.1186/s40793-024-00625-x](https://doi.org/10.1186/s40793-024-00625-x)
870. **Steska, T.**, **Wagner, S.**, **Reemtsma, T.**, **Kühnel, D.** (2024):
Influence of silver fiber morphology on dose-response relationship and enrichment in *Daphnia magna* studied by elemental imaging with LA-ICP-TOF-MS
Chem. Res. Toxicol. **37** (2), 292 - 301 [10.1021/acs.chemrestox.3c00293](https://doi.org/10.1021/acs.chemrestox.3c00293)
871. Stevens, B., Adami, S., Ali, T., Anzt, H., Aslan, Z., **Attinger, S.**, Bäck, J., Baehr, J., et al. (2024):
Earth Virtualization Engines (EVE)
Earth Syst. Sci. Data **16** (4), 2113 - 2122 [10.5194/essd-16-2113-2024](https://doi.org/10.5194/essd-16-2113-2024)

872. Strotmann, U., Durand, M.-J., Thouand, G., **Eberlein, C., Heipieper, H.J.**, Gartiser, S., Pagga, U. (2024):
Microbiological toxicity tests using standardized ISO/OECD methods-current state and outlook
Appl. Microbiol. Biotechnol. **108** , art. 454 [10.1007/s00253-024-13286-0](https://doi.org/10.1007/s00253-024-13286-0)
873. Stroud, J.T., Delory, B.M., Barnes, E.M., Chase, J.M., De Meester, L., Dieskau, J., Grainger, T.N., Halliday, F.W., Kardol, P., **Knight, T.M., Ladouceur, E.**, Little, C.J., **Roscher, C.**, Sarneel, J.M., Temperton, V.M., van Steijn, T.L.H., Werner, C.M., Wood, C.W., Fukami, T. (2024):
Priority effects transcend scales and disciplines in biology
Trends Ecol. Evol. **39** (7), 677 - 688 [10.1016/j.tree.2024.02.004](https://doi.org/10.1016/j.tree.2024.02.004)
874. **Strunz, S., Strachan, R., Bauer, M., Zenclussen, A.C., Leppert, B., Junge, K.M., Polte, T.** (2024):
Maternal exposure to low-dose BDE-47 induced weight gain and impaired insulin sensitivity in the offspring
Int. J. Mol. Sci. **25** (16), art. 8620 [10.3390/ijms25168620](https://doi.org/10.3390/ijms25168620)
875. Suarez-Castro, A.F., **Oh, R.R.Y.**, Tulloch, A.I.T., **Bonn, A.**, Fuller, R.A., Rhodes, J.R. (2024):
Landscape structure influences the spatial distribution of urban bird attractiveness
Landsc. Ecol. **39** (8), art. 149 [10.1007/s10980-024-01950-9](https://doi.org/10.1007/s10980-024-01950-9)
876. **Sultana, R., Werban, U., Pohle, M., Vienken, T.** (2024):
Introducing a tailored site delineation approach to optimize the design of managed aquifer recharge surface spreading infrastructure
Groundwater Sustain. Dev. **25** , art. 101169 [10.1016/j.gsd.2024.101169](https://doi.org/10.1016/j.gsd.2024.101169)
877. Sumfleth, B., Majer, S., **Thrän, D.** (2024):
Bridging gaps in sustainability certification of low-ILUC-risk biomass - A decision support scheme
32nd European Biomass Conference and Exhibition, 24-27 June, Marseille, France
EUBCE Proceedings
ETA-Florence Renewable Energies, Florence, p. 265
- 268 [10.5071/32ndEUBCE2024-2AV.3.2](https://doi.org/10.5071/32ndEUBCE2024-2AV.3.2)
878. Summers, S., **Bin-Hudari, M.S.**, Magill, C., Henry, T., Gutierrez, T. (2024):
Identification of the bacterial community that degrades phenanthrene sorbed to polystyrene nanoplastics using DNA-based stable isotope probing
Sci. Rep. **14** , art. 5229 [10.1038/s41598-024-55825-9](https://doi.org/10.1038/s41598-024-55825-9)

879. Sun, J., Zhu, R., Gong, J., Qu, C.M., **Guo, F.** (2024):
Cross-comparison between Jilin-1GF03B and Sentinel-2 multi-spectral measurements and phenological monitors
IEEE Access **12** , 43540 - 43551 [10.1109/ACCESS.2024.3379322](https://doi.org/10.1109/ACCESS.2024.3379322)
880. Sünneemann, M., Barnes, A.D., Amyntas, A., Ciobanu, M., Jochum, M., Lochner, A., Potapov, A.M., **Reitz, T.**, Rosenbaum, B., **Schädler, M.**, Zeuner, A., Eisenhauer, N. (2024):
Sustainable land use strengthens microbial and herbivore controls in soil food webs in current and future climates
Glob. Change Biol. **30** (11), e17554 [10.1111/gcb.17554](https://doi.org/10.1111/gcb.17554)
881. Sutanto, S.J., Janssen, M., **de Brito, M.M.**, del Pozo Garcia, M. (2024):
The effect of wildfires on flood risk: a multi-hazard flood risk approach for the Ebro River basin, Spain
Nat. Hazards Earth Syst. Sci. **24** (11), 3703 - 3721 [10.5194/nhess-24-3703-2024](https://doi.org/10.5194/nhess-24-3703-2024)
882. Svenningsen, C.S., **Peters, B.**, **Bowler, D.E.**, Dunn, R.R., **Bonn, A.**, Tøttrup, A.P. (2024):
Insect biomass shows a stronger decrease than species richness along urban gradients
Insect. Conserv. Divers. **17** (2), 182 - 188 [10.1111/icad.12694](https://doi.org/10.1111/icad.12694)
883. Szabó, B., Kassai, P., Plunge, S., Nemes, A., Braun, P., **Strauch, M.**, **Witing, F.**, Mészáros, J., Čerkasova, N. (2024):
Addressing soil data needs and data gaps in catchment-scale environmental modelling: the European perspective
Soil **10** (2), 587 - 617 [10.5194/soil-10-587-2024](https://doi.org/10.5194/soil-10-587-2024)
884. Szangolies, L., Rohwäder, M.-S., Ahmed, H., Jahanmiri, F., Wagner, A., Souto-Veiga, R., **Grimm, V.**, Gallagher, C. (2024):
Visual ODD: A standardised visualisation illustrating the narrative of agent-based models
JASSS **27** (4), art. 1 [10.18564/jasss.5450](https://doi.org/10.18564/jasss.5450)
885. Taherdangkoo, R., Nagel, T., **Chen, C.-F.**, **Mollaali, M.**, Ghasabeh, M., Cuisinier, O., Abdallah, A., Butscher, C. (2024):
Modeling unsaturated hydraulic conductivity of compacted bentonite using a constrained CatBoost with bootstrap analysis
Appl. Clay Sci. **260** , art. 107530 [10.1016/j.clay.2024.107530](https://doi.org/10.1016/j.clay.2024.107530)

886. **Tal, T.**, Myhre, O., Fritsche, E., Rüegg, J., Craenen, K., Aiello-Holden, K., Agrillo, C., Babin, P.J., **Escher, B.I.**, Dirven, H., Hellsten, K., Dolva, K., Hessel, E., Heusinkveld, H.J., Hadzhiev, Y., Hurem, S., Jagiello, K., Judzinska, B., **Klüver, N.**, Knoll-Gellida, A., Kühne, B.A., Leist, M., Lislien, M., Lyche, J.L., Müller, F., Colbourne, J.K., Neuhaus, W., Pallocca, G., Seeger, B., Scharkin, I., **Scholz, S.**, Spjuth, O., Torres-Ruiz, M., Bartmann, K. (2024):
New approach methods to assess developmental and adult neurotoxicity for regulatory use: a PARC work package 5 project
Front. Toxicol. **6** , art. 1359507 [10.3389/ftox.2024.1359507](https://doi.org/10.3389/ftox.2024.1359507)
887. **Tanneberger, F.**, **Berghöfer, A.**, Brust, K., Hammerich, J., Holsten, B., Joosten, H., Michaelis, D., Moritz, F., Reichelt, F., Schäfer, A., Scheid, A., Trepel, M., Wahren, A., Couwenberg, J. (2024):
Quantifying ecosystem services of rewetted peatlands – the MoorFutures methodologies
Ecol. Indic. **163** , art. 112048 [10.1016/j.ecolind.2024.112048](https://doi.org/10.1016/j.ecolind.2024.112048)
888. **Tanui, I.C.**, Kandie, F., **Krauss, M.**, **Piotrowska, A.**, Kiprop, A., **Shahid, N.**, **Liess, M.**, **Brack, W.** (2024):
Seasonal hot spots of pollution and risks in Western Kenya: A spatial-temporal analysis of almost 800 organic micropollutants
Sci. Total Environ. **949** , art. 175036 [10.1016/j.scitotenv.2024.175036](https://doi.org/10.1016/j.scitotenv.2024.175036)
889. **Tarasova, L.**, Ahrens, B., Hoff, A., Lall, U. (2024):
The value of large-scale climatic indices for monthly forecasting severity of widespread flooding using dilated convolutional neural networks
Earth Future **12** (2), e2023EF003680 [10.1029/2023ef003680](https://doi.org/10.1029/2023ef003680)
890. **Tarasova, L.**, Gnann, S., **Yang, S.**, Hartmann, A., Wagener, T. (2024):
Catchment characterization: Current descriptors, knowledge gaps and future opportunities
Earth-Sci. Rev. **252** , art. 104739 [10.1016/j.earscirev.2024.104739](https://doi.org/10.1016/j.earscirev.2024.104739)
891. Tarazona, J.V., de Alba-Gonzalez, M., Bedos, C., Benoit, P., Bertrand, C., Crouzet, O., Dagès, C., Dorne, J.-L.C.M., Fernandez-Agudo, A., Focks, A., del Carmen Gonzalez-Caballero, M., Kroll, A., **Liess, M.**, Loureiro, S., Ortiz-Santaliestra, M.E., Rasmussen, J.J., Royauté, R., Rundlöf, M., Schäfer, R.B., Short, S., **Siddique, A.**, Sousa, J.P., Spurgeon, D., Staub, P.-F., Topping, C.J., Voltz, M., Axelman, J., Aldrich, A., Duquesne, S., Mazerolles, V., Devos, Y. (2024):
A conceptual framework for landscape-based environmental risk assessment (ERA) of pesticides
Environ. Int. **191** , art. 108999 [10.1016/j.envint.2024.108999](https://doi.org/10.1016/j.envint.2024.108999)

892. Teixeira, G.M., Montanari, G.C.C., Nicoletto, M.L.A., da Silva, D.V., Noriler, S.A., de Oliveira, J.P., da Silva Rodrigues, M.V., Sanches, D.S., de Padua Pereira, U., **Nunes da Rocha, U.**, de Oliveira, A.G. (2024):
Draft genome of *Bacillus velezensis* CMRP6330, a suitable biocontrol agent for disease management in crops
Microbiol. Resour. Ann. **13** (12), e00657-24 [10.1128/mra.00657-24](https://doi.org/10.1128/mra.00657-24)
893. ter Heijne, A., **Harnisch, F.** (2024):
Microbial electrodes
Nat. Rev. Method. Prim. **4**, art. 60 [10.1038/s43586-024-00332-4](https://doi.org/10.1038/s43586-024-00332-4)
894. Tessema, T., Mortimer, D., **Gupta, S.K., Mallast, U.**, Uzor, S., Tosti, F. (2024):
Urban green infrastructure monitoring using remote sensing techniques
In: Schulz, K., Michel, U., Nikolakopoulos, K.G. (eds.)
Earth Resources and Environmental Remote Sensing/GIS Applications XV, Edinburgh, United Kingdom, 16-19 September 2024
Proceedings / SPIE 13197
SPIE, Bellingham, WA, p. 131970Z [10.1117/12.3034031](https://doi.org/10.1117/12.3034031)
895. **Thrän, D.**, Wollnik, R., Borchers, M., Sadr, M., Matzner, N., Otto, D., Förster, J., **Siedschlag, D.** (2024):
Multilevel assessment of bio-based CDR options - Towards a sustainable implementation of integrated BECCS concepts in Germany
32nd European Biomass Conference and Exhibition, 24-27 June, Marseille, France
EUBCE Proceedings
ETA-Florence Renewable Energies, Florence, p. 8 - 11
[10.5071/32ndEUBCE2024-BP.1.3](https://doi.org/10.5071/32ndEUBCE2024-BP.1.3)
896. **Tian, Y.**, Kleidon, A., Lesk, C., Zhou, S., Luo, X., Ghausi, S.A., Wang, G., Zhong, D., **Zscheischler, J.** (2024):
Characterizing heatwaves based on land surface energy budget
Commun. Earth Environ. **5**, art. 617 [10.1038/s43247-024-01784-y](https://doi.org/10.1038/s43247-024-01784-y)
897. **Titocci, J., Fink, P.** (2024):
Disturbance alters phytoplankton functional traits and consequently drives changes in zooplankton life-history traits and lipid composition
Hydrobiologia **851** (1), 161 - 180 [10.1007/s10750-023-05323-2](https://doi.org/10.1007/s10750-023-05323-2)
898. **Tittel, J., Rosenlöcher, Y., Dadi, T., Lechtenfeld, O., Simon, C.** (2024):
The age of buried carbon changes the greenhouse gas budget of a dam
J. Geophys. Res.-Biogeosci. **129** (6), e2023JG007979 [10.1029/2023jg007979](https://doi.org/10.1029/2023jg007979)

899. Tkalec, Ž., Antignac, J.-P., Bandow, N., Béen, F.M., Belova, L., Bessems, J., Le Bizec, B., **Brack, W.**, Cano-Sancho, G., Chaker, J., Covaci, A., Creusot, N., David, A., Debrauwer, L., Dervilly, G., Duca, R.C., Fessard, V., Grimalt, J.O., Guerin, T., Habchi, B., Hecht, H., Hollender, J., Jamin, E.L., Klánová, J., Kosjek, T., **Krauss, M.**, Lamoree, M., Lavison-Bompard, G., Meijer, J., Moeller, R., Mol, H., Mompelat, S., Van Nieuwenhuysse, A., Oberacher, H., Parinet, J., Van Poucke, C., Roškar, R., Togola, A., Trontelj, J., Price, E.J. (2024): Innovative analytical methodologies for characterizing chemical exposure with a view to next-generation risk assessment
Environ. Int. **186** , art. 108585 [10.1016/j.envint.2024.108585](https://doi.org/10.1016/j.envint.2024.108585)
900. Todorović, I., Abrouk, D., Fierling, N., Kyselková, M., **Bouffaud, M.-L.**, **Buscot, F.**, Giongo, A., Smalla, K., Picot, A., Raičević, V., Jovičić-Petrović, J., Moënné-Loccoz, Y., Muller, D. (2024): Manure amendments and fungistasis, and relation with protection of wheat from *Fusarium graminearum*
Appl. Soil Ecol. **201** , art. 105506 [10.1016/j.apsoil.2024.105506](https://doi.org/10.1016/j.apsoil.2024.105506)
901. Torresani, M., Rocchini, D., Ceola, G., de Vries, J.P.R., **Feilhauer, H.**, Moudrý, V., Bartholomeus, H., Perrone, M., Anderle, M., Gamper, H.A., Chieffallo, L., Guatelli, E., Gatti, R.C., Kleijn, D. (2024): Grassland vertical height heterogeneity predicts flower and bee diversity: an UAV photogrammetric approach
Sci. Rep. **14** , art. 809 [10.1038/s41598-023-50308-9](https://doi.org/10.1038/s41598-023-50308-9)
902. Treydte, K., Liu, L., Padrón, R.S., Martínez-Sancho, E., Babst, F., Frank, D.C., Gessler, A., Kahmen, A., Poulter, B., Seneviratne, S.I., Stegehuis, A.I., Wilson, R., Andreu-Hayles, L., Bale, R., Bednarz, Z., **Boettger, T.**, Berninger, F., Büntgen, U., Daux, V., Dorado-Liñán, I., Esper, J., Friedrich, M., Gagen, M., Grabner, M., Grudd, H., Gunnarsson, B.E., Gutiérrez, E., Hafner, P., **Haupt, M.**, Hiltunen, E., Heinrich, I., Helle, G., Jalkanen, R., Jungner, H., Kalela-Brundin, M., Kessler, A., Kirchhefer, A., Klesse, S., Krapiec, M., Levanič, T., Leuenberger, M., Linderholm, H.W., McCarroll, D., Masson-Delmotte, V., Pawelczyk, S., Pazdur, A., Planells, O., Pukienė, R., Rinne-Garmston, K.T., Robertson, I., Saracino, A., Saurer, M., Schleser, G.H., Seftigen, K., Siegwolf, R.T.W., Sonninen, E., Stievenard, M., Szychowska-Krapiec, E., Szymaszek, M., Todaro, L., Waterhouse, J.S., Weigl-Kuska, M., Weigt, R.B., Wimmer, R., Woodley, E.J., Vitas, A., Young, G., Loader, N.J. (2024): Recent human-induced atmospheric drying across Europe unprecedented in the last 400 years
Nat. Geosci. **17** (1), 58 - 65 [10.1038/s41561-023-01335-8](https://doi.org/10.1038/s41561-023-01335-8)
903. Troche-Souza, C., Priego-Santander, A., **Equihua, J.**, Vázquez-Balderas, B. (2024): Spatial distribution of carbon stocks along protected and non-protected coastal wetland ecosystems in the Gulf of Mexico
Ecosystems **27** , 724 - 738 [10.1007/s10021-024-00918-9](https://doi.org/10.1007/s10021-024-00918-9)

904. Tschikof, M., Gericke, A., Venohr, M., Weigelhofer, G., Bondar-Kunze, E., **Kaden, U.S.,** Hein, T. (2024):
Corrigendum to “The potential of large floodplains to remove nitrate in river basins – The Danube case” [Sci. Total Environ. 843 (2022) 156879]
Sci. Total Environ. **912**, art. 168774 [10.1016/j.scitotenv.2023.168774](https://doi.org/10.1016/j.scitotenv.2023.168774)
905. **Tüllinghoff, A., Toepel, J., Bühler, B.** (2024):
Enlightening electron routes in oxyfunctionalizing *Synechocystis* sp. PCC 6803
ChemBioChem **25** (6), e202300475 [10.1002/cbic.202300475](https://doi.org/10.1002/cbic.202300475)
906. **Ude, E.O.,** Undiandeye, J., **Abdulkadir, N.,** Dahunsi, S.O., **Adrian, L.** (2024):
Simultaneous ammonium removal and methane production against nitrite inhibition by coupling anammox bacteria activity in biogas digester
Bioresour. Technol. Rep. **26**, art. 101838 [10.1016/j.biteb.2024.101838](https://doi.org/10.1016/j.biteb.2024.101838)
907. **Ullah, R.,** Muhammad, S., Ali, W., Amin, S., Khan, S., Rasool, A., El-Latif Hesham, A., Umar, M., Ali, S., Iqbal, S., Ahmad, A. (2024):
Evaluation of irrigation, drinking, and risk indices for water quality parameters of alpine lakes
Environ. Geochem. Health **46** (5), art. 175 [10.1007/s10653-024-01950-3](https://doi.org/10.1007/s10653-024-01950-3)
908. Undiandeye, J., Gallegos, D., **Bonatelli, M.L., Kleinstaub, S., Bin-Hudari, M.S.,** Abdulkadir, N., Stinner, W., **Sträuber, H.** (2024):
Medium-chain carboxylates production from plant waste: kinetic study and effect of an enriched microbiome
Biotechnol. Biofuels Bioprod. **17**, art. 79 [10.1186/s13068-024-02528-y](https://doi.org/10.1186/s13068-024-02528-y)
909. Václavík, T., **Beckmann, M.,** Bednář, M., Brdar, S., Breckenridge, G., Cord, A.F., Domingo-Marimon, C., Gosal, A., Langerwisch, F., **Paulus, A.,** Roilo, S., Šarapatka, B., Ziv, G., Čejka, T. (2024):
Farming system archetypes help explain the uptake of agri-environment practices in Europe
Environ. Res. Lett. **19** (7), art. 074004 [10.1088/1748-9326/ad4efa](https://doi.org/10.1088/1748-9326/ad4efa)
910. Valdez, J., Damasceno, G., **Oh, R.R.Y.,** Quintero Uribe, L.C., Barajas Barbosa, M.P., Ferreira Amado, T., Schmidt, C., Fernandez, M., Sharma, S. (2024):
Strategies for advancing inclusive biodiversity research through equitable practices and collective responsibility
Conserv. Biol. **38** (6), e14325 [10.1111/cobi.14325](https://doi.org/10.1111/cobi.14325)
911. Valente, M.J., Motteau, S., Margalef, M., **König, M., Lee, J., Braun, G., Wojtysiak, N.,** Antignac, J.-P., Lamoree, M., Scholze, M., **Escher, B.I.,** Vinggaard, A.M. (2024):
Antiandrogenic activity of reconstituted chemical mixtures reflecting real-life co-exposure patterns
Toxicol. Lett. **399** (Suppl. 2), S354 [10.1016/j.toxlet.2024.07.842](https://doi.org/10.1016/j.toxlet.2024.07.842)

912. Valero, A., Petrash, D.A., **Kuchenbuch, A., Korth, B.** (2024):
Enriching electroactive microorganisms from ferruginous lake waters – Mind the sulfate reducers!
Bioelectrochemistry **157**, art. 108661 [10.1016/j.bioelechem.2024.108661](https://doi.org/10.1016/j.bioelechem.2024.108661)
913. van Bommel, M., Arndt, K., Endress, M.-G., **Dehghani, F.**, Wirsching, J., **Blagodatskaya, E.**, Blagodatsky, S., Kandeler, E., Marhan, S., Poll, C., Ruess, L. (2024):
Under the lens: Carbon and energy channels in the soil micro-food web
Soil Biol. Biochem. **199**, art. 109575 [10.1016/j.soilbio.2024.109575](https://doi.org/10.1016/j.soilbio.2024.109575)
914. van Klink, R., **Bowler, D.E.**, Gongalsky, K.B., Shen, M., Swengel, S.R. (2024):
Disproportionate declines of formerly abundant species underlie insect loss
Nature **628** (8007), 359 - 364 [10.1038/s41586-023-06861-4](https://doi.org/10.1038/s41586-023-06861-4)
915. van Klink, R., **Sheard, J.K.**, Høye, T.T., Roslin, T., Do Nascimento, L.A., Bauer, S. (2024):
Towards a toolkit for global insect biodiversity monitoring
Philos. Trans. R. Soc. B-Biol. Sci. **379** (1904), art. 20230101 [10.1098/rstb.2023.0101](https://doi.org/10.1098/rstb.2023.0101)
916. van Wijk, D., **Kong, X.**, Knap, H., Janssen, A.B.G. (2024):
A serious game approach for lake modeling and management: The EscapeBLOOM
Environ. Modell. Softw. **173**, art. 105941 [10.1016/j.envsoft.2024.105941](https://doi.org/10.1016/j.envsoft.2024.105941)
917. Vargas Godoy, M.R., Markonis, Y., **Rakovec, O.**, Jenicek, M., Dutta, R., Pradhan, R.K., Bešťáková, Z., Kyselý, J., Juras, R., Papalexiou, S.M., Hanel, M. (2024):
Water cycle changes in Czechia: a multi-source water budget perspective
Hydrol. Earth Syst. Sci. **28** (1), 1 - 19 [10.5194/hess-28-1-2024](https://doi.org/10.5194/hess-28-1-2024)
918. Viehof, A., **Haange, S.-B.**, Streidl, T., **Schubert, K., Engelmann, B.**, Haller, D., **Rolle-Kampczyk, U., von Bergen, M.**, Clavel, T. (2024):
The human intestinal bacterium *Eggerthella lenta* influences gut metabolomes in gnotobiotic mice
Microbiome Research Reports **3**, art. 14 [10.20517/mrr.2023.65](https://doi.org/10.20517/mrr.2023.65)
919. Vinggaard, A.M., **Escher, B.I.**, Scholze, M., Valente, M.J., Lamoree, M., Hamers, T., Schmeisser, S., Herzler, M. (2024):
Risk assessment of complex chemical mixtures – an overview of approaches and recent developments
Toxicol. Lett. **399** (Suppl. 2), S11 [10.1016/j.toxlet.2024.07.040](https://doi.org/10.1016/j.toxlet.2024.07.040)

920. Vinyes-Nadal, M., **Kümmel, S.**, Espín, Y., Gómez-Alday, J.J., **Gehre, M.**, Otero, N., Torrentó, C. (2024):
Dual C and Cl compound-specific isotope analysis and metagenomic insights into the degradation of the pesticide methoxychlor
J. Hazard. Mater. **480** , art. 135929 [10.1016/j.jhazmat.2024.135929](https://doi.org/10.1016/j.jhazmat.2024.135929)
921. Vinyes-Nadal, M., Masbou, J., **Kümmel, S.**, **Gehre, M.**, Imfeld, G., Otero, N., Torrentó, C. (2024):
Novel extraction methods and compound-specific isotope analysis of methoxychlor in environmental water and aquifer slurry samples
Sci. Total Environ. **931** , art. 172858 [10.1016/j.scitotenv.2024.172858](https://doi.org/10.1016/j.scitotenv.2024.172858)
922. **Virtanen, R.**, Harpole, W.S., Dunker, S., Eskelinen, A. (2024):
Multiple global change factors cause declines of a temperate bryophyte
Plant Ecol. Divers. **17** (1-2), 35 - 46 [10.1080/17550874.2024.2330659](https://doi.org/10.1080/17550874.2024.2330659)
923. Vistnes, H., Sossalla, N.A., Uhl, W., Sundsøy, A.W., Asimakopoulou, A.G., Spahr, S., **Escher, B.I.**, Meyn, T. (2024):
Effect of tunnel wash water treatment processes on trace elements, organic micropollutants, and biological effects
J. Hazard. Mater. **480** , art. 136363 [10.1016/j.jhazmat.2024.136363](https://doi.org/10.1016/j.jhazmat.2024.136363)
924. Vitt, P., Girdler, E.B., Gorra, J.M., **Knight, T.M.**, Havens, K. (2024):
Demography and threats to population growth of *Cirsium pitcheri*, a threatened dune plant, in Wisconsin
Ecol. Evol. **14** (2), e10870 [10.1002/ece3.10870](https://doi.org/10.1002/ece3.10870)
925. **Vogel, H.-J.**, Amelung, W., Baum, C., Bonkowski, M., Blagodatsky, S., Grosch, R., Herbst, M., Kiese, R., Koch, S., Kuhwald, M., **König, S.**, Leinweber, P., Lennartz, B., Müller, C.W., Pagel, H., Rillig, M.C., **Rüschhoff, J.**, Russell, D., Schnepf, A., Schulz, S., Siebers, N., **Vetterlein, D.**, Wachendorf, C., **Weller, U.**, **Wollschläger, U.** (2024):
How to adequately represent biological processes in modeling multifunctionality of arable soils
Biol. Fert. Soils **60** (3), 263 - 306 [10.1007/s00374-024-01802-3](https://doi.org/10.1007/s00374-024-01802-3)
926. **Vogel, H.-J.**, **Weller, U.**, **Schlüter, S.** (2024):
Linking structure and functions in agricultural soils
In: Sparks, D.L. (ed.)
Advances in Agronomy 188
Elsevier, p. 363 - 403 [10.1016/bs.agron.2024.06.005](https://doi.org/10.1016/bs.agron.2024.06.005)

927. **von Gönner, J., Gröning, J., Grescho, V.,** Neuer, L., Gottfried, B., Hänsch, V.G., Molsberger-Lange, E., Wilharm, E., **Liess, M., Bonn, A.** (2024):
Citizen science shows that small agricultural streams in Germany are in a poor ecological status
Sci. Total Environ. **922** , art. 171183 [10.1016/j.scitotenv.2024.171183](https://doi.org/10.1016/j.scitotenv.2024.171183)
928. **von Gönner, J.,** Masson, T., Köhler, S., Fritsche, I., **Bonn, A.** (2024):
Citizen science promotes knowledge, skills and collective action to monitor and protect freshwater streams
People Nat. **6** (6), 2357 - 2373 [10.1002/pan3.10714](https://doi.org/10.1002/pan3.10714)
929. von Suchodoletz, H., Khosravichenar, A., Fütterer, P., Zielhofer, C., Schneider, B., Sprafke, T., Tinapp, C., Fülling, A., Werther, L., Stäuble, H., Hein, M., Veit, U., Ettel, P., **Werban, U.,** Miera, J. (2024):
Holocene overbank sedimentation in Central Europe between natural and human drivers - The Weiße Elster River (Central Germany)
Geomorphology **449** , art. 109067 [10.1016/j.geomorph.2024.109067](https://doi.org/10.1016/j.geomorph.2024.109067)
930. **Vučić, V., Harms, H., Müller, S.** (2024):
Biological recovery of phosphorus (BioP-Rec) from wastewater streams using brewer's yeast on pilot-scale
Eng. Life Sci. **24** (2), e2300208 [10.1002/elsc.202300208](https://doi.org/10.1002/elsc.202300208)
931. Vuilleumier, S., Barthelmebs, L., Corcoll, N., Hery, M., Karpouzas, D.G., **Wick, L.Y.** (2024):
Editorial: thematic issue on microbial ecotoxicology
FEMS Microbiol. Ecol. **100** (8), fiae097 [10.1093/femsec/fiae097](https://doi.org/10.1093/femsec/fiae097)
932. **Wachholz, A.,** Jawitz, J.W., **Borchardt, D.** (2024):
From Iron Curtain to green belt: shift from heterotrophic to autotrophic nitrogen retention in the Elbe River over 35 years of passive restoration
Biogeosciences **21** (15), 3537 - 3550 [10.5194/bg-21-3537-2024](https://doi.org/10.5194/bg-21-3537-2024)
933. Wagner, H., Schad, A., **Höhm, S.M., Briol, T.A.,** Wilhelm, C. (2024):
Carbon and energy balance of biotechnological glycolate production from microalgae in a pre-industrial scale flat panel photobioreactor
Biotechnol. Biofuels Bioprod. **17** , art. 42 [10.1186/s13068-024-02479-4](https://doi.org/10.1186/s13068-024-02479-4)
934. **Waldemer, C., Lechtenfeld, O.J., Gao, S., Koschorreck, M., Herzsprung, P.** (2024):
Anaerobic degradation of excess protein-rich fish feed drives CH₄ ebullition in a freshwater aquaculture pond
Sci. Total Environ. **954** , art. 176514 [10.1016/j.scitotenv.2024.176514](https://doi.org/10.1016/j.scitotenv.2024.176514)

935. **Waldemer, C.**, Schwarz, M., Lorke, A., **Boehrer, B.**, **Koschorreck, M.** (2024):
Bubble sizes inferred from bubble gas composition in a temperate freshwater fish pond
Inland Waters **14** (1-2), 1 - 14 [10.1080/20442041.2024.2327974](https://doi.org/10.1080/20442041.2024.2327974)
936. Wang, C., **Jiang, S.**, Zheng, Y., Han, F., **Kumar, R.**, **Rakovec, O.**, Li, S. (2024):
Distributed hydrological modeling with physics-encoded deep learning: A general
framework and its application in the Amazon
Water Resour. Res. **60** (4), e2023WR036170 [10.1029/2023WR036170](https://doi.org/10.1029/2023WR036170)
937. Wang, M., Bodirsky, B.L., Rijneveld, R., Beier, F., Bak, M.P., **Batool, M.**, Droppers, B.,
Popp, A., van Vliet, M.T.H., Strokal, M. (2024):
A triple increase in global river basins with water scarcity due to future pollution
Nat. Commun. **15** , art. 880 [10.1038/s41467-024-44947-3](https://doi.org/10.1038/s41467-024-44947-3)
938. **Wang, M.**, Tausch, F., Schmidt, K., Diehl, M., Knaebe, S., Bargaen, H.,
Materne, L., **Groeneveld, J.**, **Grimm, V.** (2024):
Honeybee pollen but not nectar foraging greatly reduced by neonicotinoids: Insights from
AI and simulation
Comput. Electron. Agric. **221** , art. 108966 [10.1016/j.compag.2024.108966](https://doi.org/10.1016/j.compag.2024.108966)
939. **Wang, M.**, Wang, H.-H., Koralewski, T.E., Grant, W.E., White, N., Hanan, J., **Grimm, V.** (2024):
From known to unknown unknowns through pattern-oriented modelling: Driving research
towards the Medawar zone
Ecol. Model. **497** , art. 110853 [10.1016/j.ecolmodel.2024.110853](https://doi.org/10.1016/j.ecolmodel.2024.110853)
940. Wang, Q., **Lechtenfeld, O.J.**, Rietvelt, L.C., Schuster, J., Ernst, M.,
Hofman-Caris, R., **Kaesler, J.**, Wang, C., Yang, M., Yu, J., Zietzschmann, F. (2024):
How aromatic dissolved organic matter differs in competitiveness against organic
micropollutant adsorption
Environ. Sci. Ecotechnol. **21** , art. 100392 [10.1016/j.esec.2024.100392](https://doi.org/10.1016/j.esec.2024.100392)

941. Wang, S., Casey, E., Sordillo, J., Aguilar-Lacasaña, S., Morales Berstein, F., Biedrzycki, R.J., Brescianini, S., Chen, S., Hough, A., Isaevska, E., Kim, W.J., Lecorguillé, M., Shaobo Li, S., Page, C.M., Park, J., **Röder, S.**, Salontaji, K., Santorelli, G., Sun, Y., Won, S., Zillich, E., Zillich, L., Annesi-Maesano, I., Arshad, S.H., Bustamante, M., Cecil, C.A.M., Elliott, H.R., Ewart, S., Felix, J.F., Gagliardi, L., Håberg, S.E., **Herberth, G.**, Heude, B., Holloway, J.W., Huels, A., Karmaus, W., Koppelman, G.H., London, S.J., Mumford, S.L., Nisticò, L., Popovic, M., Rusconi, F., Schisterman, E.F., Stein, D.J., Send, T., Tiemeier, H., Vonk, J.M., Vrijheid, M., Wiemels, J.L., Witt, S.H., Wright, J., Yeung, E.H., Zar, H.J., **Zenclussen, A.C.**, Zhang, H., Chavarro, J.E., Hivert, M.-F. (2024):
Cesarean delivery and blood DNA methylation at birth and childhood: Meta-analysis in the Pregnancy and Childhood Epigenetics Consortium
Sci. Adv. **10** (48), eadr2084 [10.1126/sciadv.adr2084](https://doi.org/10.1126/sciadv.adr2084)
942. Wang, Y., Shao, H., Kuhlman, K.L., Jove-Colon, C.F., **Kolditz, O.** (2024):
Shear-induced fluid localization, episodic fluid release and porosity wave in deformable low-permeability rock salt
Geomech. Energy Environ. **40** , art. 100600 [10.1016/j.gete.2024.100600](https://doi.org/10.1016/j.gete.2024.100600)
943. **Wang, Z.**, Digel, L., Yuan, Y., Lu, H., Yang, Y., **Vogt, C.**, **Richnow, H.-H.**, Nielsen, L.P. (2024):
Electrogenic sulfur oxidation mediated by cable bacteria and its ecological effects
Environ. Sci. Ecotechnol. **20** , art. 100371 [10.1016/j.esec.2023.100371](https://doi.org/10.1016/j.esec.2023.100371)
944. Wang, Z., Huang, S., Mu, Z., Leng, G., Duan, W., Ling, H., Xu, J., Zheng, X., Li, P., Li, Z., Guo, W., Li, Y., Deng, M., **Peng, J.** (2024):
Relative humidity and solar radiation exacerbate snow drought risk in the headstreams of the Tarim River
Atmos. Res. **297** , art. 107091 [10.1016/j.atmosres.2023.107091](https://doi.org/10.1016/j.atmosres.2023.107091)
945. Wang, Z., Huang, S., Singh, V.P., Mu, Z., Leng, G., Li, J., Duan, W., Ling, H., Xu, J., Nie, M., Leng, Y., Gao, Y., Guo, W., Wei, X., Deng, M., **Peng, J.** (2024):
Contrasting characteristics and drivers of dry and warm snow droughts in China's largest inland river basin
J. Hydrol. Reg. Stud. **53** , art. 101751 [10.1016/j.ejrh.2024.101751](https://doi.org/10.1016/j.ejrh.2024.101751)
946. Weber, C., Noël, G., Sickel, W., Monaghan, M.T., **Bonn, A.**, Lokatis, S. (2024):
Urban pavements as a novel habitat for wild bees and other ground-nesting insects
Urban Ecosyst. **27** (6), 2453 - 2467 [10.1007/s11252-024-01569-3](https://doi.org/10.1007/s11252-024-01569-3)

947. Wehrli, M., Slotsbo, S., Fomsgaard, I.S., Laursen, B.B., **Gröning, J., Liess, M.,** Holmstrup, M. (2024):
A dirt(y) world in a changing climate: Importance of heat stress in the risk assessment of pesticides for soil arthropods
Glob. Change Biol. **30** (10), e17542 [10.1111/gcb.17542](https://doi.org/10.1111/gcb.17542)
948. Wei, X., Huang, S., Liu, D., Li, J., Huang, Q., Leng, G., Shi, H., **Peng, J.** (2024):
The response of agricultural drought to meteorological drought modulated by air temperature
J. Hydrol. **639**, art. 131626 [10.1016/j.jhydrol.2024.131626](https://doi.org/10.1016/j.jhydrol.2024.131626)
949. Wei, Y., Chen, Y., Hong, Y., Chen, J., Li, H.-B., Li, H., Yao, X., **Mehmood, T.,** Feng, X., Luo, X.-S. (2024):
Comparative in vitro toxicological effects of water-soluble and insoluble components of atmospheric PM_{2.5} on human lung cells
Toxicol. Vitro **98**, art. 105828 [10.1016/j.tiv.2024.105828](https://doi.org/10.1016/j.tiv.2024.105828)
950. Wei, Z., Miao, L., **Peng, J.,** Zhao, T., Meng, L., Lu, H., Peng, Z., Cosh, M.H., Fang, B., Lakshmi, V., Shi, J. (2024):
Bridging spatio-temporal discontinuities in global soil moisture mapping by coupling physics in deep learning
Remote Sens. Environ. **313**, art. 114371 [10.1016/j.rse.2024.114371](https://doi.org/10.1016/j.rse.2024.114371)
951. Weichert, F.G., **Brack, W., Brauns, M., Fink, P.,** Johann, S., **Krauss, M.,** Hollert, H. (2024):
Dataset on target chemical and bioassay analysis - Exploring contaminants of emerging concern in a low mountain river of central Germany
Data Brief **54**, art. 110510 [10.1016/j.dib.2024.110510](https://doi.org/10.1016/j.dib.2024.110510)
952. **Weidmüller, N., Knopp, J.M.,** Beber, J., Mikulčić Krnjaja, G., **Banzhaf, E.** (2024):
Local planning scenario for shading from trees as an urban nature-based solution
City Environ. Interact. **23**, art. 100154 [10.1016/j.cacint.2024.100154](https://doi.org/10.1016/j.cacint.2024.100154)
953. Weimer, A., **Pause, L.,** Ries, F., Kohlstedt, M., **Adrian, L., Krömer, J., Lai, B.,** Wittmann, C. (2024):
Systems biology of electrogenic *Pseudomonas putida* - multi-omics insights and metabolic engineering for enhanced 2-ketogluconate production
Microb. Cell. Fact. **23**, art. 246 [10.1186/s12934-024-02509-8](https://doi.org/10.1186/s12934-024-02509-8)
954. Weisbrich, M., Messerer, D., **Holzer, F., Trommler, U., Roland, U.,** Holschemacher, K. (2024):
The impact of liquids and saturated salt solutions on polymer-coated fiber optic sensors for distributed strain and temperature measurement
Sensors **24** (14), art. 4659 [10.3390/s24144659](https://doi.org/10.3390/s24144659)

955. Weise, C., **Schirmer, M.**, Polack, M., Korell, A., Westphal, H., Schwieger, J., Warias, R., Zimmermann, S., Belder, D. (2024):
Modular chip-based nanoSFC–MS for ultrafast separations
Anal. Chem. **96** (34), 13888 - 13896 [10.1021/acs.analchem.4c01958](https://doi.org/10.1021/acs.analchem.4c01958)
956. Welte, E.A.R., **Bowler, D.E.**, Sinclair, J.S., Altermatt, F., Álvarez-Cabria, M., Amatulli, G., Angeler, D.G., Archambaud, G., et al. (2024):
Time series of freshwater macroinvertebrate abundances and site characteristics of European streams and rivers
Sci. Data **11**, art. 601 [10.1038/s41597-024-03445-3](https://doi.org/10.1038/s41597-024-03445-3)
957. Wen, L., Cui, Y., Huang, L., Wei, C., **Wang, G.**, **Zhang, J.**, Jiang, Y., Wei, Y., Shen, P. (2024):
Changes of composition and antibiotic resistance of fecal coliform bacteria in municipal wastewater treatment plant
J. Environ. Sci. **146**, 241 - 250 [10.1016/j.jes.2023.09.012](https://doi.org/10.1016/j.jes.2023.09.012)
958. **Wen, X.**, Chen, M., Ma, B., Xu, J., Zhu, T., Zou, Y., Liao, X., Wang, Y., **Worrich, A.**, Wu, Y. (2024):
Removal of antibiotic resistance genes during swine manure composting is strongly impaired by high levels of doxycycline residues
Waste Manage. **177**, 76 - 85 [10.1016/j.wasman.2024.01.037](https://doi.org/10.1016/j.wasman.2024.01.037)
959. **Wen, X.**, Xu, J., Wang, Y., Yang, X., Peng, G., Li, S., Ma, B., Zou, Y., Liao, X., Wang, Y., **Worrich, A.**, Wu, Y. (2024):
Community coalescence and plant host filtering determine the spread of tetracycline resistance genes from pig manure into the microbiome continuum of the soil–plant system
Microbiol. Res. **284**, art. 127734 [10.1016/j.micres.2024.127734](https://doi.org/10.1016/j.micres.2024.127734)
960. **Wen, X.**, Xu, J., **Worrich, A.**, Li, X., Yuan, X., Ma, B., Zou, Y., Wang, Y., Liao, X., Wu, Y. (2024):
Priority establishment of soil bacteria in rhizosphere limited the spread of tetracycline resistance genes from pig manure to soil-plant systems based on synthetic communities approach
Environ. Int. **187**, art. 108732 [10.1016/j.envint.2024.108732](https://doi.org/10.1016/j.envint.2024.108732)
961. West, B., Bauer, M., Chalkiadakis, C., Dendoncker, N., González-Martínez, T.M., Mascarenhas, A., Leucci, F., Phillips, B.B., Ploumi, K.T., Rodriguez, C., **Vandewalle, M.**, Washbourne, C.-L. (2024):
Exploring human-nature relationships in academic literature on the nitrogen cycle
Ecosyst. People **20** (1), art. 2380856 [10.1080/26395916.2024.2380856](https://doi.org/10.1080/26395916.2024.2380856)
962. Westerband, A.C., **Knight, T.M.**, Barton, K.E. (2024):
A test of island plant syndromes using resource-use traits
J. Syst. Evol. **62** (2), 233 - 241 [10.1111/jse.13032](https://doi.org/10.1111/jse.13032)

963. **Westermann, S.A., Hildebrandt, A.,** Boussetta, S., **Thober, S.** (2024):
Does dynamically modeled leaf area improve predictions of land surface water and carbon fluxes? Insights into dynamic vegetation modules
Biogeosciences **21** (22), 5277 - 5303 [10.5194/bg-21-5277-2024](https://doi.org/10.5194/bg-21-5277-2024)
964. Wicaksono, W.A., Mora, M., Bickel, S., Berg, C., **Kühn, I.,** Cernava, T., Berg, G. (2024):
Rhizosphere assembly alters along a chronosequence in the Hallstätter glacier forefield (Dachstein, Austria)
FEMS Microbiol. Ecol. **100** (2), fae005 [10.1093/femsec/fae005](https://doi.org/10.1093/femsec/fae005)
965. Wieneke, S., Pacheco-Labrador, J., **Mahecha, M.D.,** Poblador, S., Vicca, S., Janssens, I.A. (2024):
Comparing the quantum use efficiency of red and far-red sun-induced fluorescence at leaf and canopy under heat-drought stress
Remote Sens. Environ. **311** , art. 114294 [10.1016/j.rse.2024.114294](https://doi.org/10.1016/j.rse.2024.114294)
966. Wilhelmi, P., Haake, V., Zickgraf, F.M., Giri, V., Ternes, P., Driemert, P., **Nöth, J., Scholz, S.,** Barenys, M., Flick, B., Birk, B., Kamp, H., Landsiedel, R., Funk-Weyer, D. (2024):
Molecular signatures of angiogenesis inhibitors: a single-embryo untargeted metabolomics approach in zebrafish
Arch. Toxicol. **98** (3), 943 - 956 [10.1007/s00204-023-03655-5](https://doi.org/10.1007/s00204-023-03655-5)
967. **Will, M., Bartkowski, B., Schwarz, N., Wittstock, F.,** Grujić, N., Li, C., Ge, J., Ziv, G., **Müller, B.** (2024):
From primary data to formalized decision-making: open challenges and ways forward to inform representations of farmers' behaviour in agent-based models
Ecol. Soc. **29** (4), art. 31 [10.5751/ES-15400-290431](https://doi.org/10.5751/ES-15400-290431)
968. Winkler, D.E., Garbowski, M., Kožić, K., **Ladouceur, E.,** Larson, J., **Martin, S.,** Rosche, C., **Roscher, C.,** Slate, M.L., **Korell, L.** (2024):
Facilitating comparable research in seedling functional ecology
Methods Ecol. Evol. **15** (3), 464 - 476 [10.1111/2041-210X.14288](https://doi.org/10.1111/2041-210X.14288)
969. **Winter, C.,** Jawitz, J.W., **Ebeling, P.,** Cohen, M.J., **Musolff, A.** (2024):
Divergence between long-term and event-scale nitrate export patterns
Geophys. Res. Lett. **51** (10), e2024GL108437 [10.1029/2024GL108437](https://doi.org/10.1029/2024GL108437)
970. **Wolff, M.,** Labohm, B., **Haase, D.,** Andersson, E. (2024):
Mapping protection effects and gaps of forest dynamics in Europe 2012 to 2018
Ecol. Indic. **169** , art. 112895 [10.1016/j.ecolind.2024.112895](https://doi.org/10.1016/j.ecolind.2024.112895)

971. Wolkis, D., Eltringham, C., Fant, J., Foster, J., **Knight, T.**, Meyer, A., Romero-Saltos, H., Walsh, S.K., Wood, A., Havens, K. (2024):
Pollen banking is a critical need for conserving plant diversity
Nat. Plants **10** (9), 1270 - 1271 [10.1038/s41477-024-01757-1](https://doi.org/10.1038/s41477-024-01757-1)
972. Wollnik, R., **Borchers, M.**, Seibert, R., Abel, S., Herrmann, P., Elsasser, P., Hildebrandt, J., Meisel, K., Hofmann, P., Radtke, K., Selig, M., Kazmin, S., Szarka, N., **Thrän, D.** (2024):
Dynamics of bio-based carbon dioxide removal in Germany
Sci. Rep. **14**, art. 20395 [10.1038/s41598-024-71017-x](https://doi.org/10.1038/s41598-024-71017-x)
973. Wollnik, R., **Borchers, M.**, **Thrän, D.** (2024):
Designing tomorrow - expenses and temporal dynamics of bio-based carbon dioxide removal
32nd European Biomass Conference and Exhibition, 24-27 June, Marseille, France
EUBCE Proceedings
ETA-Florence Renewable Energies, Florence, p. 327
- 331 [10.5071/32ndEUBCE2024-2BV.7.8](https://doi.org/10.5071/32ndEUBCE2024-2BV.7.8)
974. **Wollschläger, N.**, **Schlink, U.**, **Trabitzsch, R.**, **Moeller, L.** (2024):
Weather dynamics affect the long-term thermal and hydrological performance of different green roof designs
Sci. Total Environ. **957**, art. 177376 [10.1016/j.scitotenv.2024.177376](https://doi.org/10.1016/j.scitotenv.2024.177376)
975. Wu, M.Y., Chong, H.W., Tan, Y.Y., Lim, B.T.M., Wong, A.M.S., **Oh, R.R.Y.**, Lee, J.G.H., Ng, E.Y.X., Rheindt, F.E. (2024):
Genomic data reveal shift in geographic source of an illegally traded songbird
Conserv. Genet. **25** (1), 179 - 187 [10.1007/s10592-023-01564-9](https://doi.org/10.1007/s10592-023-01564-9)
976. **Wu, W.**, **Guo, F.**, **Elze, S.**, **Knopp, J.**, **Banzhaf, E.** (2024):
Deciphering the effects of 2D/3D urban morphology on diurnal cooling efficiency of urban green space
Build. Environ. **266**, art. 112047 [10.1016/j.buildenv.2024.112047](https://doi.org/10.1016/j.buildenv.2024.112047)
977. Xia, S., Chen, F., Shi, Z., Deng, L., **Georgi, A.**, **Zhang, H.** (2024):
In situ grown single-atom cobalt on carbon nanofibers for efficient adsorptive removal of antibiotics: Performance and mechanisms understanding
Chem. Eng. J. **499**, art. 156594 [10.1016/j.cej.2024.156594](https://doi.org/10.1016/j.cej.2024.156594)
978. **Xia, Y.**, **Fu, Q.**, Voss, H., Fest, S., Zenclussen, A.C., Stojanovska, V. (2024):
Evaluation of real-life PFAS mixture toxicity and impact on 3D placenta spheroid model
Toxicol. Lett. **399** (Suppl. 2), S189 [10.1016/j.toxlet.2024.07.471](https://doi.org/10.1016/j.toxlet.2024.07.471)

979. **Xiang, Q., Stryhanyuk, H., Schmidt, M., Kümmel, S., Richnow, H.H., Zhu, Y.-G., Cui, L., Musat, N.** (2024):
Stable isotopes and nanoSIMS single-cell imaging reveals soil plastisphere colonizers able to assimilate sulfamethoxazole
Environ. Pollut. **355** , art. 124197 [10.1016/j.envpol.2024.124197](https://doi.org/10.1016/j.envpol.2024.124197)
980. **Xiao, Y., Li, X., Fan, L., De Lannoy, G., Peng, J., Frappart, F., Ebtehaj, A., de Rosnay, P., Xing, Z., Yu, L., Dong, G., Yueh, S.H., Colliander, A., Wigneron, J.-P.** (2024):
Optimal model-based temperature inputs for global soil moisture and vegetation optical depth retrievals from SMAP
Remote Sens. Environ. **311** , art. 114240 [10.1016/j.rse.2024.114240](https://doi.org/10.1016/j.rse.2024.114240)
981. **Xu, C., Huang, Q., Haase, D., Dong, Q., Teng, Y., Su, M., Yang, Z.** (2024):
Cooling effect of green spaces on urban heat island in a Chinese megacity: Increasing coverage versus optimizing spatial distribution
Environ. Sci. Technol. **58** (13), 5811 - 5820 [10.1021/acs.est.3c11048](https://doi.org/10.1021/acs.est.3c11048)
982. **Xu, C., Huang, Q., Su, M., Gu, Z., Haase, D.** (2024):
The inequity of urban green space availability between urban villages and residential quarters: An empirical study in Shenzhen, China
J. Clean Prod. **448** , art. 141704 [10.1016/j.jclepro.2024.141704](https://doi.org/10.1016/j.jclepro.2024.141704)
983. **Yakovliev, Y., Rogozhin, O., Stefanyshyn, D., Kreta, D., Anpilova, Y., Myrontsov, M.** (2024):
Environmental and geological hazards after the explosion of the Kakhovka hydroelectric power plant and rehabilitation options
In: Babak, V., Zaporozhets, A. (eds.)
Systems, decision and control in energy VI. Volume II: Power engineering and environmental safety
Studies in Systems, Decision and Control 552
Springer, Berlin, Heidelberg, New York, p. 537 - 557 [10.1007/978-3-031-67091-6_25](https://doi.org/10.1007/978-3-031-67091-6_25)
984. **Yang, S., Di Lodovico, E., Rupp, A., Harms, H., Fricke, C., Miltner, A., Kaestner, M., Maskow, T.** (2024):
Enhancing insights: exploring the information content of calorespirometric ratio in dynamic soil microbial growth processes through calorimetry
Front. Microbiol. **15** , art. 1321059 [10.3389/fmicb.2024.1321059](https://doi.org/10.3389/fmicb.2024.1321059)
985. **Yang, X., Dong, X., Bezama, A., Liu, Y.** (2024):
Improving rapeseed carbon footprint evaluation via the integration of remote sensing technology into an LCA approach
Sci. Total Environ. **946** , art. 174262 [10.1016/j.scitotenv.2024.174262](https://doi.org/10.1016/j.scitotenv.2024.174262)

986. **Yang, X.,** Liu, Y., **Bezama, A., Thrän, D.** (2024):
Agricultural carbon emission efficiency and agricultural practices: Implications for balancing carbon emissions reduction and agricultural productivity increment
Environ. Dev. **59** , art. 101004 [10.1016/j.envdev.2024.101004](https://doi.org/10.1016/j.envdev.2024.101004)

987. Yang, X., Tetzlaff, D., Jin, J., Li, Q., **Borchardt, D.,** Soulsby, C. (2024):
Linking terrestrial biogeochemical processes and water ages to catchment water quality: A new Damköhler analysis based on coupled modeling of isotope tracers and nitrate dynamics
Water Res. **262** , art. 122118 [10.1016/j.watres.2024.122118](https://doi.org/10.1016/j.watres.2024.122118)

988. Ye, Y., Ghrayeb, M., Miercke, S., Arif, S., **Müller, S.,** Mascher, T., Chai, L., Zaburdaev, V. (2024):
Residual cells and nutrient availability guide wound healing in bacterial biofilms
Soft Matter **20** (5), 1047 - 1060 [10.1039/D3SM01032E](https://doi.org/10.1039/D3SM01032E)

989. Yi, H., Zhou, H., **Kolditz, O.,** Xue, D. (2024):
Insight into the elastoplastic behavior of Beishan granite influenced by temperature and hydraulic pressure
Int. J. Rock Mech. Min. Sci. **177** , art. 105744 [10.1016/j.ijrmms.2024.105744](https://doi.org/10.1016/j.ijrmms.2024.105744)

990. Yi, S., Li, X., Wang, R., Guo, Z., **Dong, X.,** Liu, Y., Xu, Q. (2024):
Interpretable spatial machine learning insights into urban sanitation challenges: A case study of human feces distribution in San Francisco
Sust. Cities Soc. **113** , art. 105695 [10.1016/j.scs.2024.105695](https://doi.org/10.1016/j.scs.2024.105695)

991. **Yin, X.,** Leng, G., Huang, S., **Peng, J.** (2024):
Aggravation of global maize yield loss risk under various hot and dry scenarios using multiple types of prediction approaches
Int. J. Climatol. **44** (4), 1058 - 1073 [10.1002/joc.8371](https://doi.org/10.1002/joc.8371)

992. **Yin, Z., Zenclussen, A.C., Schumacher, A.** (2024):
Sex-specific effects of bisphenol A, its substitutes and benzophenone-3 on T helper 1 cell differentiation
FEBS Open Bio **14** (S1), 49 - 50 [10.1002/2211-5463.13792](https://doi.org/10.1002/2211-5463.13792)

993. Yoon, J., Voisin, N., **Klassert, C.,** Thurber, T., Xu, W. (2024):
Representing farmer irrigated crop area adaptation in a large-scale hydrological model
Hydrol. Earth Syst. Sci. **28** (4), 899 - 916 [10.5194/hess-28-899-2024](https://doi.org/10.5194/hess-28-899-2024)

994. You, L.-X., Zhong, H.-L., Chen, S.-R., Sun, Y.-N., Wu, G.-K., Zhao, M.-Z., Hu, S.-S., Alwathnani, H., **Herzberg, M.,** Qin, S.-F., Rensing, C. (2024):
Biosynthesis of silver nanoparticles using *Burkholderia contaminans* ZCC and mechanistic analysis at the proteome level
Ecotox. Environ. Safe. **278** , art. 116425 [10.1016/j.ecoenv.2024.116425](https://doi.org/10.1016/j.ecoenv.2024.116425)

995. **You, T.,** Zhu, Q., Li, W., Shao, J. (2024):
Phase-field modeling of thermal fracture and shear heating in rocks with degraded thermal conductivity across crack
Acta Mech. Solida Sin. **37** , 711 - 726 [10.1007/s10338-023-00452-6](https://doi.org/10.1007/s10338-023-00452-6)
996. **Zacharias, S.,** Loescher, H.W., Bogen, H., Kiese, R., **Schrön, M., Attinger, S.,** Blume, T., **Borchardt, D.,** Borg, E., **Bumberger, J.,** Chwala, C., **Dietrich, P.,** Fersch, B., **Frenzel, M.,** Gaillardet, J., Groh, J., Hajnsek, I., Itzerott, S., Kunkel, R., Kunstmann, H., Kunz, M., Liebner, S., **Mirtl, M.,** Montzka, C., **Musolff, A.,** Pütz, T., **Rebmann, C., Rinke, K., Rode, M.,** Sachs, T., **Samaniego, L.,** Schmid, H.P., **Vogel, H.-J.,** Weber, U., **Wollschläger, U.,** Vereecken, H. (2024):
Fifteen years of integrated Terrestrial Environmental Observatories (TERENO) in Germany: Functions, services and lessons learned
Earth Future **12** (6), e2024EF004510 [10.1029/2024ef004510](https://doi.org/10.1029/2024ef004510)
997. **Zahn, D.,** Arp, H.P.H., Fenner, K., **Georgi, A.,** Hafner, J., Hale, S.E., Hollender, J., Letzel, T., Schymanski, E.L., Sigmund, G., **Reemtsma, T.** (2024):
Should transformation products change the way we manage chemicals?
Environ. Sci. Technol. **58** (18), 7710 - 7718 [10.1021/acs.est.4c00125](https://doi.org/10.1021/acs.est.4c00125)
998. Zang, H., Mehmood, I., Kuzyakov, Y., Jia, R., Gui, H., **Blagodatskaya, E.,** Xu, X., Smith, P., Chen, H., Zeng, Z., Fan, M. (2024):
Not all soil carbon is created equal: Labile and stable pools under nitrogen input
Glob. Change Biol. **30** (7), e17405 [10.1111/gcb.17405](https://doi.org/10.1111/gcb.17405)
999. Zaryab, A., Alijani, F., **Knoeller, K.,** Minet, E., Musavi, S.F., Ostadhashemi, Z. (2024):
Identification of groundwater nitrate sources in an urban aquifer (Alborz Province, Iran) using a multi-parameter approach
Environ. Geochem. Health **46** (3), art. 100 [10.1007/s10653-024-01872-0](https://doi.org/10.1007/s10653-024-01872-0)
1000. **Zenclussen, A.C.** (2024):
ENDOMIX: Understanding how endocrine disruptors and mixtures of concern target the immune system to trigger or perpetuate disease
Reprod. Sci. **31** (1 Suppl.), 332A - 332A [10.1007/s43032-024-01501-2](https://doi.org/10.1007/s43032-024-01501-2)
1001. Zenclussen, M.L., Ulrich, S., **Bauer, M., Fink, B., Zenclussen, A.C., Schumacher, A., Meyer, N.** (2024):
Absence of heme oxygenase-1 affects trophoblastic spheroid implantation and provokes dysregulation of stress and angiogenesis gene expression in the uterus
Cells **13** (5), art. 376 [10.3390/cells13050376](https://doi.org/10.3390/cells13050376)

1002. Zeng, H., Shi, W., Yang, B., Deng, J., Wang, J., **Zhang, H.** (2024):
Co₄(PW₉O₃₄)₂ polyoxometalate cluster intercalated in layered double hydroxides
as catalyst for the oxidation of *p*-arsanilic acid and subsequent immobilization of
arsenic-containing byproducts
ACS Appl. Nano Mater. **7** (19), 23008 - 23017 [10.1021/acsanm.4c04245](https://doi.org/10.1021/acsanm.4c04245)

1003. Zeng, H., Yang, B., Zhang, J., Zhu, H., Deng, J., Shi, Z., Zhou, S., **Zhang, H.**, Cai, A.,
Deng, L. (2024):
MnFe layered double hydroxides confined MnO_x for peroxymonosulfate activation: A
novel manner for the selective production of singlet oxygen
Environ. Pollut. **348**, art. 123865 [10.1016/j.envpol.2024.123865](https://doi.org/10.1016/j.envpol.2024.123865)

1004. **Zhang, C.**, Su, B., **Beckmann, M.**, Volk, M. (2024):
Emergy-based evaluation of ecosystem services: Progress and perspectives
Renew. Sust. Energ. Rev. **192**, art. 114201 [10.1016/j.rser.2023.114201](https://doi.org/10.1016/j.rser.2023.114201)

1005. **Zhang, J.**, Lu, T., Song, Y., **Nunes da Rocha, U.**, Liu, J., **Nikolausz, M.**, Wei,
Y., **Richnow, H.H.** (2024):
Viral communities contribute more to the lysis of antibiotic-resistant bacteria than the
transduction of antibiotic resistance genes in anaerobic digestion revealed by
metagenomics
Environ. Sci. Technol. **58** (5), 2346 - 2359 [10.1021/acs.est.3c07664](https://doi.org/10.1021/acs.est.3c07664)

1006. Zhang, L., Zhou, H., Wang, X., Deng, T., **Chen, C.**, Zhang, H., Nagel, T. (2024):
Modeling the visco-elastoplastic behavior of deep coal based on conformable derivative
Mech. Time-Depend. Mater. **28** (2), 501 - 521 [10.1007/s11043-023-09588-x](https://doi.org/10.1007/s11043-023-09588-x)

1007. Zhang, X., Wang, Y., Lee, S., Liang, K., Zhao, K., McCarty, G.W., Alfieri, J.G.,
Moglen, G.E., Hively, W.D., Myers, D.T., Oviedo-Vargas, D., **Nguyen, V.T.**, Hinson,
A.L., Du, L., Romeiko, X.X. (2024):
Synergistic water quality and soil organic carbon sequestration benefits of winter cover
crops
J. Environ. Manage. **371**, art. 123104 [10.1016/j.jenvman.2024.123104](https://doi.org/10.1016/j.jenvman.2024.123104)

1008. Zhang, X., Zheng, Y., Su, Z., **Wang, Z.**, Zhang, J., Jia, Z., **Kümmel, S.**, Qin,
C., Liu, Y., Wang, S., **Nijenhuis, I.**, **Richnow, H.H.** (2024):
Anaerobic biotransformation of hexachlorocyclohexane isomers in aqueous condition:
dual C-Cl isotope fractionation and impact on microbial community compositions
Water Res. **254**, art. 121389 [10.1016/j.watres.2024.121389](https://doi.org/10.1016/j.watres.2024.121389)

1009. Zhang, Z., Chen, R., **Blagodatskaya, E.**, Blagodatsky, S., Liu, D., Yu, Y., Zhu, X., Feng,
Y. (2024):
Long-term application of mineral fertilizer weakens the stability of microbial
N-transforming functions via the decrease of soil microbial diversity
Journal of Sustainable Agriculture and Environment **3** (4), e70014 [10.1002/sae2.70014](https://doi.org/10.1002/sae2.70014)

1010. Zhao, S., Rogers, M.J., **Ding, C.**, Xu, G., He, J. (2024):
Interspecies mobility of organohalide respiration gene clusters enables genetic bioaugmentation
Environ. Sci. Technol. **58** (9), 4214 - 4225 [10.1021/acs.est.3c09171](https://doi.org/10.1021/acs.est.3c09171)

1011. Zhao, T., Wang, S., Ouyang, C., Chen, M., Liu, C., Zhang, J., Yu, L., Wang, F., Xie, Y., Li, J., Wang, F., Grunwald, S., Wong, B.M., Zhang, F., Qian, Z., Xu, Y., Yu, C., Han, W., Sun, T., Shao, Z., Qian, T., Chen, Z., Zeng, J., Zhang, H., Letu, H., Zhang, B., Wang, L., Luo, L., Shi, C., Su, H., Zhang, H., Yin, S., Huang, N., Zhao, W., Li, N., Zheng, C., Zhou, Y., Huang, C., Feng, D., Xu, Q., Wu, Y., Hong, D., **Wang, Z.**, Lin, Y., Zhang, T., Kumar, P., Plaza, A., Chanussot, J., Zhang, J., Shi, J., Wang, L. (2024):
Artificial intelligence for geoscience: Progress, challenges, and perspectives
The Innovation **5** (5), art. 100691 [10.1016/j.xinn.2024.100691](https://doi.org/10.1016/j.xinn.2024.100691)

1012. Zhao, Z., Salehi Sadaghiani, M.R., **Yang, W.**, Hua, P., Zhang, J., Krebs, P. (2024):
Estimating storm runoff extreme in small ungauged catchments using an integrated modeling approach
Sustainable Horizons **9** , art. 100092 [10.1016/j.horiz.2024.100092](https://doi.org/10.1016/j.horiz.2024.100092)

1013. Zheng, L., Barry, K.E., Guerrero-Ramírez, N.R., Craven, D., Reich, P.B., Verheyen, K., Scherer-Lorenzen, M., Eisenhauer, N., Barsoum, N., Bauhus, J., Bruelheide, H., Cavender-Bares, J., Dolezal, J., **Auge, H.**, Fagundes, M.V., Ferlian, O., Fiedler, S., Forrester, D.I., Ganade, G., et al. (2024):
Effects of plant diversity on productivity strengthen over time due to trait-dependent shifts in species overyielding
Nat. Commun. **15** , art. 2078 [10.1038/s41467-024-46355-z](https://doi.org/10.1038/s41467-024-46355-z)

1014. Zheng, T., Yu, X., Gao, S., Chang, Q., Fang, Y., Zheng, X., **Kolditz, O.**, Luo, J. (2024):
Transient behavior of the freshwater-saltwater mixing zone after land reclamation in coastal aquifers
Adv. Water Resour. **189** , art. 104728 [10.1016/j.advwatres.2024.104728](https://doi.org/10.1016/j.advwatres.2024.104728)

1015. Zhong, S., Fan, L., De Lannoy, G., Frappart, F., Zeng, J., Vreugdenhil, M., **Peng, J.**, Liu, X., Xing, Z., Wang, M., Li, X., Wang, H., Wigneron, J.-P. (2024):
Quantitative assessment of various proxies for downscaling coarse-resolution VOD products over the contiguous United States
Int. J. Appl. Earth Obs. Geoinf. **130** , art. 103910 [10.1016/j.jag.2024.103910](https://doi.org/10.1016/j.jag.2024.103910)

1016. Zhou, F., Hagan, D.F.T., Wang, G., Liang, X.S., **Li, S.**, Shao, Y., Yeboah, E., Wei, X. (2024):
Estimating time-dependent structures in a multivariate causality for land–atmosphere interactions
J. Clim. **37** (6), 1853 - 1876 [10.1175/JCLI-D-23-0207.1](https://doi.org/10.1175/JCLI-D-23-0207.1)

1017. Zhou, J., Sun, Y., **Blagodatskaya, E.**, Berauer, B.J., Schuchardt, M., Holz, M., Shi, L., Dannenmann, M., Kiese, R., Jentsch, A., Pausch, J. (2024):
Response of microbial growth and enzyme activity to climate change in European mountain grasslands: A translocation study
Catena **239** , art. 107956 [10.1016/j.catena.2024.107956](https://doi.org/10.1016/j.catena.2024.107956)
1018. Zhou, J., Wen, Y., Liu, C., **Blagodatskaya, E.**, Kuzyakov, Y., Zeng, Z., Jones, D.L., Zang, H. (2024):
Quantifying apparent and real priming effects based on inverse labelling
Appl. Soil Ecol. **195** , art. 105234 [10.1016/j.apsoil.2023.105234](https://doi.org/10.1016/j.apsoil.2023.105234)
1019. **Zhu, M., Liu, Y.**, He, Y., **Kuemmell, S., Wu, L.**, Shen, D., **Richnow, H.H.** (2024):
Multi-element (^2H , ^{13}C , ^{37}Cl) isotope analysis to characterize reductive transformation of α -, β -, γ -, and δ -HCH isomers by cobalamin and Fe^0 nanoparticles
J. Hazard. Mater. **480** , art. 135932 [10.1016/j.jhazmat.2024.135932](https://doi.org/10.1016/j.jhazmat.2024.135932)
1020. Zhu, M., Yuan, L., Zhou, F., Ma, S., Zhang, W., **Miltner, A.**, He, H., Zhang, X. (2024):
Time-dependent regulation of soil aggregates on fertilizer N retention and the influence of straw mulching
Soil Biol. Biochem. **198** , art. 109551 [10.1016/j.soilbio.2024.109551](https://doi.org/10.1016/j.soilbio.2024.109551)
1021. Zhu, X., Li, H., Luo, Y., Li, Y., Zhang, J., **Wang, Z., Yang, W.**, Li, R. (2024):
Evaluation and prediction of anthropogenic impacts on long-term multimedia fate and health risks of PFOS and PFOA in the Elbe River Basin
Water Res. **257** , art. 121675 [10.1016/j.watres.2024.121675](https://doi.org/10.1016/j.watres.2024.121675)
1022. **Zhu, Y., Gawel, E., Klauer, B., Klassert, C.** (2024):
Impacts of intermittent water supply on household electricity demand: An econometric analysis for the Pune Metropolitan Region, India
Water Resources and Economics **48** , art. 100250 [10.1016/j.wre.2024.100250](https://doi.org/10.1016/j.wre.2024.100250)
1023. **Zhu, Y., Klassert, C., Klauer, B., Gawel, E.** (2024):
Understanding the water-energy nexus at the private household level: an economic perspective
Water Econ. Policy **10** (4), art. 2450010 [10.1142/S2382624X24500103](https://doi.org/10.1142/S2382624X24500103)
1024. Zidar, P., **Kühnel, D.**, Sever Škapin, A., Skalar, T., Drobne, D., Škrlep, L., Mušič, B., Jemec Kokalj, A. (2024):
Comparing the effects of pristine and UV–VIS aged microplastics: Behavioural response of model terrestrial and freshwater crustaceans
Ecotox. Environ. Safe. **285** , art. 117020 [10.1016/j.ecoenv.2024.117020](https://doi.org/10.1016/j.ecoenv.2024.117020)

1025. **Zill, J., Perujo, N., Fink, P., Mallast, U., Siebert, C., Weitere, M.** (2024):
Contribution of groundwater-borne nutrients to eutrophication potential and the share of
benthic algae in a large lowland river
Sci. Total Environ. **951** , art. 175617 [10.1016/j.scitotenv.2024.175617](https://doi.org/10.1016/j.scitotenv.2024.175617)
1026. **Zinngrebe, Y., Berger, J., Bunn, C., Felipe-Lucia, M.R., Graßnick, N., Kastner, T., Pe'er, G., Schleyer, C., Lakner, S.** (2024):
Prioritizing partners and products for the sustainability of the EU's agri-food trade
One Earth **7** (4), 674 - 686 [10.1016/j.oneear.2024.03.002](https://doi.org/10.1016/j.oneear.2024.03.002)
1027. **Zoll, F., Zollet, S., Egli, L., Vicente-Vicente, J.L.** (2024):
Editorial: Alternative food networks for sustainable, just, resilient and productive food
systems
Front. Sustain. Food Syst. **8** , art. 1490031 [10.3389/fsufs.2024.1490031](https://doi.org/10.3389/fsufs.2024.1490031)
1028. **Zozmann, H., Schüler, L., Fu, X., Gawel, E.** (2024):
Autonomous and policy-induced behavior change during the COVID-19 pandemic:
Towards understanding and modeling the interplay of behavioral adaptation
PLOS One **19** (5), e0296145 [10.1371/journal.pone.0296145](https://doi.org/10.1371/journal.pone.0296145)
1029. **Zscheischler, J.** (2024):
Compound events in the coupled climate and socio-ecological system
iScience **27** (9), art. 110805 [10.1016/j.isci.2024.110805](https://doi.org/10.1016/j.isci.2024.110805)

Veröffentlichungen in anderen Zeitschriften

1030. Allsopp, H., Astolfo, G., **Haase, A.**, Laksevic, K., **Schmidt, A.**, Nasya, B., Khalil, A. (2024):
Migrant housing struggle and racial discrimination. The case of postsocialist Leipzig and Riga
Radical Housing Journal **6** (2), 97 - 114 [10.54825/CMKM2131](https://doi.org/10.54825/CMKM2131)
1031. **Anand, M., Bohn, F.J.**, Camps-Valls, G., **Fischer, R., Huth, A., Sweet, L.-B., Zscheischler, J.** (2024):
Identifying compound weather drivers of forest biomass loss with generative deep learning
Environ. Data Sci. **3**, e4 [10.1017/eds.2024.2](https://doi.org/10.1017/eds.2024.2)
1032. Ballasus, H., Beylich, A., Bluhm, C., **Buscot, F.**, Cordsen, E., Eisenhauer, N., Fröhlich, J., Glante, F., Grüneberg, E., Hommel, B., Höper, H., Jacob, F., Lachmann, C., Nabel, M., Pieper, S., Puhmann, H., Römbke, J., Roß-Nickoll, M., Russell, D.J., Scheu, S., Tebbe, C.C., Toschki, A., Walter, R., Weiß, L. (2024):
Wege zu einem bundesweit harmonisierten Monitoring: Verbesserung der Erfassung der Bodenbiodiversität und ihrer Funktionen [Towards a monitoring scheme harmonised nationwide: Improving the recording of soil biodiversity and its functions]
Nat. Landschaft **99** (9/10), 452 - 458 [10.19217/NuL2024-09-04](https://doi.org/10.19217/NuL2024-09-04)
1033. Buck, B.H., Bjelland, H.V., Bockus, A., Chambers, M., Costa-Pierce, B.A., Dewhurst, T., Ferreira, J.G., Føre, H.M., Fredriksson, D.W., Goseberg, N., Holmyard, J., Isbert, W., Krause, G., **Markus, T.**, Papandroulakis, N., Sclodnick, T., Silkes, B., Strand, Å., Troell, M., Wiczorek, D., van den Burg, S.W.K., Heasman, K.G. (2024):
Resolving the term “offshore aquaculture” by decoupling “exposed” and “distance from the coast”
Front. Aquac. **3**, art. 1428056 [10.3389/faquc.2024.1428056](https://doi.org/10.3389/faquc.2024.1428056)
1034. **Durka, W., Michalski, S.G., Höfner, J.**, Kolár, F., Müller, C.M., Oberprieler, C., Semberová, K., **Harpke, A., Korell, L., Madaj, A.-M., Musche, M., Roscher, C.**, RegioDiv-Konsortium, (2024):
Projekt RegioDiv - genetische Vielfalt krautiger Pflanzen in Deutschland: Ergebnisse und Empfehlungen für die Regiosaatgut-Praxis [RegioDiv project - Genetic diversity of herbaceous plants in Germany: Results and recommendations for seed zone management]
Nat. Landschaft **99** (7), 322 - 332 [10.19217/NuL2024-07-02](https://doi.org/10.19217/NuL2024-07-02)
1035. Fink, S., Bühlmann, I., Caponi, F., Frey, D., **Scholz, M.** (2024):
13. auenökologischer Workshop in der Schweiz: aktuelle Herausforderungen im Auenmanagement. Treizième atelier d'écologie alluviale: défis actuels de la gestion des zones alluviales
N + L inside (2), 22 - 23

1036. **Gawel, E.** (2024):
Aktuelle Herausforderungen für Friedhofsgebühren: Umsatzsteuer und kalkulatorische Kosten
Wirtschaft und Verwaltung / Themenheft zum Gewerbearchiv (2), 54 - 58
1037. **Gawel, E.** (2024):
Abgaben zur Reduzierung des Fleischkonsums
Zeitschrift für Umweltpolitik und Umweltrecht **2024** (2), 155 - 194
1038. **Groeneveld, J.**, Martinovic, T., Rossi, T., Salamon, O., Sara-aho, K., **Grimm, V.** (2024):
Prototype Biodiversity Digital Twin: honey bees in agricultural landscapes
Res. Ideas Outcomes **10** , e125167 [10.3897/rio.10.e125167](https://doi.org/10.3897/rio.10.e125167)
1039. **Hansjürgens, B.**, **Bartkowski, B.**, **Möckel, S.**, **Rode, J.**, **Schröter-Schlaack, C.** (2024):
Ökonomische Politikinstrumente zum Schutz der biologischen Vielfalt [Economic policy instruments for biodiversity conservation]
Nat. Landschaft **99** (6), 277 - 282 [10.19217/NuL2024-06-02](https://doi.org/10.19217/NuL2024-06-02)
1040. **Hashar, M.R.**, Nasrin, S. (2024):
Phosphorus forms and adsorption properties of paddy field soils and potential risk to Indawgyi Lake, Myanmar
Discover Environment **2** , art. 2 [10.1007/s44274-024-00028-2](https://doi.org/10.1007/s44274-024-00028-2)
1041. Heyer, J., **Zeug, W.** (2024):
Ökobilanz und kybernetische Wirtschaftsplanung: Demokratisch geplante Wirtschaft zur Befriedigung gesellschaftlicher Bedürfnisse in planetaren Grenzen
Prokla-Zeitschrift für kritische Sozialwissenschaft **54**
(215), 267 - 286 [10.32387/prokla.v54i215.2116](https://doi.org/10.32387/prokla.v54i215.2116)
1042. Hornberg, C., Kemfert, C., Dornack, C., **Köck, W.**, Lucht, W., **Settele, J.**, Töller, A.E., Feindt, P.H., Wolters, V., Bahrs, E., Dauber, J., Finckh, M.R., Jaenicke, H., Kleinschmit, J., Krämer, F., Kreuter-Kirchhof, C., Schleip, I., Tholen, E., Wagner, S., Wätzold, F., Wedekind, H., Weigend, S., Wider, J., Zander, K., Bauhus, J., Kleinschmit, B., Dieter, M., Endres, E., Farwig, N., Hafner, A., Kätzel, R., Knoke, T., Lang, F., Lindner, M., Meyer, P., Müller, J., Schraml, U., Seeling, U., Weber-Blaschke, G. (2024):
Plädoyer für eine entschlossene Renaturierungspolitik
Nat. Landschaft **99** (7), 350 - 352
1043. Huning, L.S., Bateni, S.M., Hayes, M., Ho, S.Q-G., Jayasinghe, S., **Kumar, R.**, Lima, C., Love, C.A., Madani, K., Markonis, Y., Matin, M.A., Miao, C., Motagh, M., Naeger, A., de Oliveira, D.Y., Read, L.K., **Samaniego, L.**, Shokri, N., Shukla, S., Soltanian, R., Stefanski, R., Trabelsi, F., Tsegai, D., Vo, L.U.C., Wanders, N., Wens, M., Zarei, A., AghaKouchak, A. (2024):
Sustainability nexus analytics, informatics, and data (AID): Drought
Sustainability Nexus Forum **32** , art. 18 [10.1007/s00550-024-00546-w](https://doi.org/10.1007/s00550-024-00546-w)

1044. Ingenloff, K., Ben Aziza, S., Weiland, C., Nikolova, N., **Thulke, H.-H., Lange, M., Reichold, A.**, Schigel, D. (2024):
Prototype Biodiversity Digital Twin: disease outbreaks
Res. Ideas Outcomes **10** , e125521 [10.3897/rio.10.e125521](https://doi.org/10.3897/rio.10.e125521)
1045. Jakeman, A.J., Elsayah, S., Wang, H.-H., Hamilton, S.H., Melsen, L., **Grimm, V.** (2024):
Towards normalizing good practice across the whole modeling cycle: its instrumentation and future research topics
Socio-Environmental Systems Modelling **6** , art. 18755 [10.18174/sesmo.18755](https://doi.org/10.18174/sesmo.18755)
1046. **Jehmlich, N.** (2024):
Editorial: Statement of peer review
Biol. Life Sci. Forum **31** (1), art. 34 [10.3390/ECM2023-00034](https://doi.org/10.3390/ECM2023-00034)
1047. **Jehmlich, N.** (2024):
Preface: The 2nd International Electronic Conference on Microbiology
Biol. Life Sci. Forum **31** (1), art. 35 [10.3390/ECM2023-00035](https://doi.org/10.3390/ECM2023-00035)
1048. Jézéquel, A., Bastos, A., Wilson, A.M., Ramos, A.M., Shepherd, T.G., Stuart-Smith, R., Kimutai, J., Moemken, J., **Zscheischler, J.**, Faranda, D., Lehner, F., Le Grix, N., Sippel, S., **Bevacqua, E.**, Rufat, S., D'Andrea, F., Lloyd, E.A., Van Loon, A.F. (2024):
Broadening the scope of anthropogenic influence in extreme event attribution
Environmental Research: Climate **3** (4), art. 042003 [10.1088/2752-5295/ad7527](https://doi.org/10.1088/2752-5295/ad7527)
1049. **Khan, T., El-Gabbas, A., Golivets, M.**, Souza, A.T., Lopez Gordillo, J., Kierans, D., **Kühn, I.** (2024):
Prototype biodiversity digital twin: invasive alien species
Res. Ideas Outcomes **10** , e124579 [10.3897/rio.10.e124579](https://doi.org/10.3897/rio.10.e124579)
1050. **Klickermann, F.** (2024):
Zum Umgang mit Wassernutzungskonflikten bei Wasserknappheit und Dürre: Empirische Bezüge
Wertermittlungsforum (WF) **2024** (1), 15 - 18
1051. Klusmann, C., Marsden, K., **Scholz, M., Kaden, U.S., Bonn, A.**, Wulf, S. (2024):
Flussauen und Küstenfeuchtgebiete wiederherstellen – Empfehlungen aus der 5. Europäischen Fachkonferenz zu Biodiversität und Klimawandel
Nat. Landschaft **99** (2), 89 - 90
1052. **Köck, W.** (2024):
Volksbegehren auf Landesebene und ihre Begrenzungen durch das Bundesrecht. Eine Anmerkung zum Urteil des Staatsgerichtshofs Bremen vom 11.3.2024
NVwZ **43** (18), 1403 - 1405

1053. **Köck, W.** (2024):
Rezension. Rechtliche Grundlagen der Umweltplanung. Raumordnungsrecht, Energierecht, Klimaschutz. Von Willy Spannowsky. – München, Beck, 2023. XXV, 340 S., kart. Euro 59. ISBN: 978-3-406-78933-5
NVwZ **43** (21), 1655 - 1656
1054. **Köck, W.** (2024):
Transformationsrecht – Wie weiter mit dem ökologischen Umbau?
Zeitschrift für Umweltrecht (ZUR) **35** (10), 513 - 514
1055. **Köck, W.** (2024):
Verfassungsrechtliche Erfordernisse der Biodiversitätssicherung nach der Klimaschutzentscheidung des BVerfG
Zeitschrift für europäisches Umwelt- und Planungsrecht (EurUP) **22** (2), 226 - 234
1056. **Köck, W.** (2024):
Bundesgesetzliche Kontingentierungen zur Verringerung der Flächeninanspruchnahme für Siedlungs- und Verkehrszwecke im Spiegel der kommunalen Selbstverwaltungsgarantie
Zeitschrift für Umweltrecht (ZUR) **35** (11), 577 - 640
1057. **Köck, W.** (2024):
Natur als Rechtssubjekt? Perspektiven für eine Transformation des Naturschutzrechts
Zeitschrift für Umweltrecht (ZUR) **35** (12), 658 - 663
1058. **Köck, W.** (2024):
Stellungnahme zum Regierungsentwurf des Klimaanpassungsgesetzes
Zeitschrift für Umweltrecht (ZUR) **35** (1), 56 - 57
1059. **Köck, W., Neubauer, M., Dahms, H.** (2024):
Die geplante „Große BauGB-Novelle“ für die Stärkung der grünen Infrastruktur in den Städten nutzen! Notwendigkeit der Reform des Bauplanungsrechts im Interesse von Klimaanpassung, Biodiversitätssicherung und Gesundheitsschutz
NVwZ **5**, 296 - 302
1060. **Kuhlicke, C., Pöbneck, J., Rink, D.** (2024):
Resilienz in der nachhaltigen Stadtentwicklung: Überlegungen zur systemischen Integration in Kommunen
Forum Wohnen und Stadtentwicklung **2024** (6), 282 - 285
1061. Lecarpentier, D., Biro, T., Endresen, D., **Golivets, M., Grimm, V.**, Islam, S., Koivula, H., Pleiter, D., Rossi, T., Schigel, D., Wohner, C., Zuquim, G., Harrison, J. (2024):
Developing Prototype Digital Twins for biodiversity conservation and management: achievements, challenges and perspectives
Res. Ideas Outcomes **10**, e133474 [10.3897/rio.10.e133474](https://doi.org/10.3897/rio.10.e133474)

1062. **Lehmann, P.**, Ellerbrok, J.S., Farwig, N., **Rheinschmitt, C.**, Voigt, C.C., Rehling, F. (2024):
Windenergienutzung im Wald: Auswirkungen auf den Artenschutz und regulatorische Lösungsansätze [Wind power deployment in forests: Implications for species conservation and regulatory responses]
Nat. Landschaft **99** (11), 521 - 532 [10.19217/NuL2024-11-01](https://doi.org/10.19217/NuL2024-11-01)
1063. Luger, P., Fink, S., Bühlmann, I., Caponi, F., Frey, D., **Scholz, M.** (2024):
13. Auenökologischer Workshop an der Eidgenössischen Forschungsanstalt WSL
Auenmagazin (24), 32 - 34
1064. **Markus, T.** (2024):
Finding the right spot: Laws promoting sustainable siting of open ocean aquaculture activities
Front. Aquac. **3** , art. 1428497 [10.3389/faquc.2024.1428497](https://doi.org/10.3389/faquc.2024.1428497)
1065. **Markus, T., Otto, D., Thrän, D.** (2024):
Die Carbon Management Strategie und CCS im Lichte klima- und energierechtlicher Weichenstellungen
Zeitschrift für Umweltrecht (ZUR) **35** (7-8), 387 - 396
1066. **Matzner, N.**, Thiel-Woznica, M., Tost, J., Weller, K. (2024):
Prototypes as future artifacts of today: Towards prototyping alternative futures
On_Culture **15** , 1 - 25 [10.22029/oc.2023.1353](https://doi.org/10.22029/oc.2023.1353)
1067. **Möckel, S.** (2024):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **99** (1), 41 - 42
1068. **Möckel, S.** (2024):
Natur und Recht Spezial: Wiederherstellung der Natur ist auch ohne europäische Verordnung geboten
Nat. Landschaft **99** (7), 353 - 355
1069. **Möckel, S.** (2024):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **99** (5), 257 - 258
1070. **Möckel, S.** (2024):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **99** (12), 605 - 607
1071. **Möckel, S.** (2024):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **99** (6), 304 - 307

1072. **Möckel, S.** (2024):
Natur und Recht Spezial: Schutz von Böden und des Bodenlebens im Recht
Nat. Landschaft **99** (9/10), 514 - 517
1073. **Möckel, S.** (2024):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **99** (8), 417 - 418
1074. **Möckel, S.** (2024):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **99** (4), 209 - 211
1075. **Möckel, S.** (2024):
Wiedervernässung von Mooren und Moorböden als notwendiger Beitrag zum
Klimaschutz und rechtliche Herausforderung
Umwelt- und Planungsrecht **44** (9), 336 - 342
1076. **Möckel, S.** (2024):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **99** (3), 152 - 153
1077. **Möckel, S.** (2024):
The macroeconomic money-nature nexus: Are growing money supplies a relevant
obstacle on the way to an ecologically sustainable global economy?
PLOS Sustainability and Transformation **3** (1), e0000095 [10.1371/journal.pstr.0000095](https://doi.org/10.1371/journal.pstr.0000095)
1078. **Moeller, L.** (2024):
Projekt gegen Schaum im Fermenter: Was hilft der Betonkuh?
Bauernzeitung (16), 37 - 37
1079. Montero, D., Kraemer, G., Angheloa, A., Aybar, C., Brandt, G., Camps-Valls,
G., Cremer, F., Flik, I., Gans, F., Habershon, S., Ji, C., Kattenborn, T.,
Martínez-Ferrer, L., Martinuzzi, F., Reinhardt, M., Söchting, M., Teber, K., **Mahecha,
M.D.** (2024):
Earth System Data Cubes: Avenues for advancing Earth system research
Environ. Data Sci. **3**, e27 [10.1017/eds.2024.22](https://doi.org/10.1017/eds.2024.22)
1080. **Nagel, T., Buchwald, J., Kiskurno, F., Pitz, M., Helfer, T.** (2024):
Hierarchical modelling in benchmarking, analysis and code development for coupled
geo-processes
Proceedings in Applied Mathematics and Mechanics **24** (3),
e202400025 [10.1002/pamm.202400025](https://doi.org/10.1002/pamm.202400025)

1081. **Neubauer, M.** (2024):
Doppelte Innenentwicklung im Städtebaurecht. Zum rechtlichen Spannungsverhältnis zwischen Freiraumschutz und dem Erhalt und Ausbau innerstädtischer Grünräume
Zeitschrift für Umweltrecht (ZUR) **35** (6), 340 - 347
1082. **Pößneck, J., Kuhlicke, C., Rink, D., Wieseemann, L.** (2024):
Kommunale Perspektiven auf das Resilienzkonzept: Einstellungen, Umsetzungsstand, Unterstützungsbedarfe
Forum Wohnen und Stadtentwicklung **2024** (6), 323 - 326
1083. **Reyes-Aldana, H.E., Risse-Buhl, U., Graeber, D.** (2024):
Furry engineers: How beavers can change an entire ecosystem
Front. Young Minds **12**, art. 1209980 [10.3389/frym.2023.1209980](https://doi.org/10.3389/frym.2023.1209980)
1084. **Rinke, K.** (2024):
Klimaanpassungen im Wasserqualitätsmanagement unserer Trinkwassertalsperren: Forschungsergebnisse und Synergien zwischen Praxis und Forschung
Energie-, Wasser-Praxis **75** (9), 66 - 73
1085. **Rocha Vogel, A., Reisch, M., von Tümpling, W.** (2024):
Gewinnung von Reifenabrieb aus Umweltproben durch Dichteabtrennung mit NaI-Schwerlösung als mögliches Referenzmaterial für umweltrelevante Prozessstudien – Exemplarische Testungen an einer Gewässerprobe
Mitt Umweltchem Ökotox **30** (1), 19 - 23
1086. **Sanne, M., Khurelbaatar, G., Despot, D., van Afferden, M., Friesen, J.** (2024):
Pysewer: A Python library for sewer network generation in data scarce regions
Journal of Open Source Software **9** (104), art. 6430 [10.21105/joss.06430](https://doi.org/10.21105/joss.06430)
1087. Soltanian, M.R., Moeini, F., Dai, Z., Sawyer, A.H., **Fleckenstein, J.H.**, Doherty, J., Curtis, Z., Chaudhuri, A., Chiogna, G., Fahs, M., Han, W.S., Mseli, Z.H., Lotti, F., Moon, H.S., Zhu, L., Al-Masri, D., Zhan, C., Hoteit, H., Matin, M.A., Zarei, A., Carroll, K.C., Evans, S.G., Madani, K. (2024):
Sustainability Nexus AID: groundwater
Sustainability Nexus Forum **32** (1), art. 21 [10.1007/s00550-024-00557-7](https://doi.org/10.1007/s00550-024-00557-7)
1088. **Stubenrauch, J.** (2024):
Die umstrittene Reform des Bundeswaldgesetzes – Einordnung der aktuellen Debatte
Nat. Landschaft **99** (11), 563 - 566
1089. **Stubenrauch, J.** (2024):
Die europäische Verordnung über die Wiederherstellung der Natur
Nat. Landschaft **99** (11), 561 - 563

1090. **Taubert, F.**, Rossi, T., Wohner, C., Venier, S., Martinovič, T., **Khan, T.**, Gordillo, J., **Banitz, T.** (2024):
Prototype Biodiversity Digital Twin: grassland biodiversity dynamics
Res. Ideas Outcomes **10** , e124168 [10.3897/rio.10.e124168](https://doi.org/10.3897/rio.10.e124168)
1091. **Vedder, D.**, **Fischer, S.M.**, Wiegand, K., **Pe'er, B.G.** (2024):
Developing multidisciplinary mechanistic models: challenges and approaches
Socio-Environmental Systems Modelling **6** , art. 18701 [10.18174/sesmo.18701](https://doi.org/10.18174/sesmo.18701)
1092. **Wildner, T.M.** (2024):
Corporate biodiversity reporting im Wandel - Chancen, Herausforderungen und die Bedeutung der Corporate Sustainability Reporting Directive der Europäischen Union [Corporate biodiversity reporting in transition - Opportunities, challenges and the importance of the Corporate Sustainability Reporting Directive of the European Union]
Nat. Landschaft **99** (6), 288 - 295 [10.19217/NuL2024-06-04](https://doi.org/10.19217/NuL2024-06-04)
1093. Xu, X., Wang, X., Zhou, P., Zhu, Z., Wei, L., Wang, S., Rathinapriya, P., **Bei, Q.**, Feng, J., Fang, F., Chen, J., Ge, T. (2024):
Coupling of microbial-explicit model and machine learning improves the prediction and turnover process simulation of soil organic carbon
Climate Smart Agriculture **1** (1), art. 100001 [10.1016/j.csag.2024.100001](https://doi.org/10.1016/j.csag.2024.100001)
1094. **Zill, F.**, Silbermann, C., **Meisel, T.** (2024):
Far-field modelling of THM processes in rock salt formations
Open Geomechanics **5** , art. 3 [10.5802/ogeo.20](https://doi.org/10.5802/ogeo.20)

Bücher

1095. **Durka, W., Michalski, S.G., Höfner, J., Harpke, A., Korell, L., Madaj, A.-M., Musche, M., Roscher, C.,** RegioDiv-Konsortium, (2024):
RegioDiv — Genetische Vielfalt krautiger Pflanzenarten in Deutschland und Empfehlungen für die Regiosaatzgut-Praxis
BfN-Schriften 687
Bundesamt für Naturschutz (BfN), Bonn, 315 S. [10.19217/skr687](https://nbn-resolving.org/urn:nbn:de:bsz:skt-10.19217/skr687)
1096. Fuchs, C., Stüker, H., **Hack, A.-L.** (2024):
Fanny, Flo und das Schrumpf-Abenteuer
Carlsen, Hamburg, 24 S.
1097. **Geller, W.,** Hupfer, M. (2024):
Seeökosysteme
Wiley-VCH, Weinheim, 560 S.
1098. Grunewald, K., Zieschank, R., **Förster, J., Hansjürgens, B., Wildner, T.M.** (2024):
Die Zukunft der Wirtschaftsberichterstattung. Ökosystemleistungen und Biodiversität in staatlichen und unternehmerischen Bilanzierungen
Essentials
Springer Vieweg, Wiesbaden, 79 S. [10.1007/978-3-658-44686-4](https://nbn-resolving.org/urn:nbn:de:bsz:skt-10.1007/978-3-658-44686-4)
1099. **Henle, K., Hüttner, M.-L., Kasperidus, H.D.,** Krämer, J., Rösler, M., **Bartelt, S.,** Brümmer, A., Clauß, B., Clauß, J., **Délétroz, C., Sattler, C.,** Rumiantceva, N., Scherfose, V. (2024):
Streuobstbestände in Deutschland: Naturschutzfachliche Bedeutung, Bestandssituation und Handlungsempfehlungen
BfN-Schriften 679
Bundesamt für Naturschutz (BfN), Bonn, 155 S. [10.19217/skr679](https://nbn-resolving.org/urn:nbn:de:bsz:skt-10.19217/skr679)
1100. Hornberg, C., Kemfert, C., Dornack, C., **Köck, W.,** Lucht, W., **Settele, J.,** Töller, A.E. (2024):
Suffizienz als „Strategie des Genug“: Eine Einladung zur Diskussion. Diskussionspapier Sachverständigenrat für Umweltfragen (SRU), Berlin, 100 S.
1101. Hornberg, C., Kemfert, C., Dornack, C., **Köck, W.,** Lucht, W., **Settele, J.,** Töller, A.E. (2024):
Wo stehen wir beim CO₂-Budget? Eine Aktualisierung. Stellungnahme Sachverständigenrat für Umweltfragen (SRU), Berlin, 16 S.

1102. Hornberg, C., Kemfert, C., Dornack, C., **Köck, W.**, Lucht, W., **Settele, J.**, Töller, A.E., Feindt, P.H., Wolters, V., Bahrs, E., Dauber, J., Finckh, M.R., Jaenicke, H., Kleinschmit, J., Krämer, F., Kreuter-Kirchhof, C., Schleip, I., Tholen, E., Wagner, S., Wätzold, F., Wedekind, H., Weigend, S., Wider, J., Zander, K., Bauhus, J., Kleinschmit, B., Dieter, M., Endres, E., Farwig, N., Hafner, A., Kätzler, R., Knoke, T., Lang, F., Lindner, M., Meyer, P., Müller, J., Schraml, U., Seeling, U., Weber-Blaschke, G. (2024): Renaturierung: Biodiversität stärken, Flächen zukunftsfähig bewirtschaften. Stellungnahme Sachverständigenrat für Umweltfragen (SRU), Wissenschaftlicher Beirat für Biodiversität und Genetische Ressourcen (WBBGR), Wissenschaftlicher Beirat für Waldpolitik (WBW), Berlin, 90 S.
1103. **Jax, K.** (2024): Conservation concepts: Rethinking human-nature relationships *Routledge Studies in Conservation and the Environment* Routledge, Abingdon, 280 pp. [10.4324/9781003251002](https://doi.org/10.4324/9781003251002)
1104. Johansson, L.-G., **Banitz, T.**, **Grimm, V.**, Hertz, T., Lindkvist, E., Martínez Peña, R., Radosavljevic, S., Ylikoski, P., Schlüter, M. (2024): A primer to causal reasoning about a complex world *SpringerBriefs in Philosophy* Springer, Cham, 150 pp. [10.1007/978-3-031-59135-8](https://doi.org/10.1007/978-3-031-59135-8)
1105. **Kuhlicke, C.**, **Pöbneck, J.**, **Rink, D.** (2024): Wie halten Sie es mit der Resilienz? Kommunale Perspektiven auf ein aktuelles Stadtkonzept *vhw-Schriftenreihe 47* vhw - Bundesverband für Wohnen und Stadtentwicklung, Berlin, 51 S.
1106. Mayer, K., Heger, T., **Kühn, I.**, Tiesmeyer, A., Nehring, S., Gaertner, M. (2024): Erster Aktionsplan für die nicht vorsätzliche Einbringung und Ausbreitung invasiver Arten gemäß Verordnung (EU) Nr. 1143/2014: Grundlagen, Inhalte und Ausblick. Ergebnisse aus dem F+E-Vorhaben „Erstellung eines Aktionsplans für die prioritären Pfade invasiver gebietsfremder Arten“ (FKZ 3518 82 0600) *BfN-Schriften 691* Bundesamt für Naturschutz (BfN), Bonn, 158 S. [10.19217/skr691](https://doi.org/10.19217/skr691)
1107. Obringer, R., **Kumar, R.**, Madani, K. (2024): Harnessing the power of AI for climate change impact assessment United Nations University Institute for Water, Environment and Health (UNU INWEH), Hamilton, 36 pp. [10.53328/INR24ROR012](https://doi.org/10.53328/INR24ROR012)

1108. Potts, S.G., Bartomeus, I., Biesmeijer, K., Breeze, T., Casino, A., Dauber, J., Dieker, P., Hochkirch, A., Høye, T., Isaac, N., Kleijn, D., Laikre, L., Mandelik, Y., Montagna, M., Montero Castaño, A., Öckinger, E., Oteman, B., Pardo Valle, A., Polce, C., Povellato, A., Quaranta, M., Roy, D., **Schweiger, O., Settele, J.**, Ståhls-Mäkelä, G., Tamborra, G., Troost, G., van der Wal, R., Vujić, A., Zhang, J. (2024):
Refined proposal for an EU Pollinator Monitoring Scheme
JRC Technical Report 138660
Publications Office of the European Union, Luxembourg, 323 pp. [10.2760/2005545](#)
1109. **Thrän, D.**, Lange, N., Mäki, E., Saastamoinen, H., Schleker, T. (2024):
Implementation of flexible bioenergy in different countries: Status quo of implementation, barriers and policy framework
IEA Bioenergy, San Casciano in Val di Pesa, 59 pp.
1110. **Thrän, D., Manske, D., Mittelstädt, N., Schinkel, B.** (2024):
Monitoring der Naturverträglichkeit des Ausbaus der erneuerbaren Energien im Strombereich („EEMonReport“). Endbericht zum Forschungsvorhaben:
„Umsetzungsmöglichkeiten eines Monitorings zur Berücksichtigung der Anforderungen von Natur und Landschaft beim Ausbau der erneuerbaren Energien und Netze im Strombereich (EEMonReport)“
BfN-Schriften 683
Bundesamt für Naturschutz (BfN), Bonn, 84 S. [10.19217/skr683](#)
1111. Wirth, C., Bruelheide, H., Farwig, N., **Settele, J.**, Marx, J.M., Ellerbrok, J.S., **Schmidt, A.**, Spatz, T., Sporbert, M., Bieling, C., Eisenhauer, N., Eskildsen, K., Feld, C.K., Freyhof, J., Fürst, C., Grunewald, K., Grüner, S., Guerra, C.A., **Haase, D.**, Haase, P., Hauck, J., Hering, D., Hillebrand, H., Hodapp, D., Jacob, U., Kaiser, J., Keil, P., Klein, A.-M., Lakner, S., Lettenmaier, L., Mascarenhas, A., Mergner, U., Müller, J., Mupepele, A.-C., Nguyen, H.H., Paetow, H., Pahl-Wostl, C., Paul, C., Poßer, C., Quaas, M., Ristok, C., Scheiffarth, G., Schmedtje, U., Schreiner, V., von Sivers, L., Sommer, P., Sponagel, C., Tebbe, C.C., Thompson, A., Wellmann, T., Xylander, W. (2024):
Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland. ZUSAMMENFASSUNG für die gesellschaftliche Entscheidungsfindung
oekom, München, 96 S. [10.14512/9783987263378](#)

Buchherausgaben

1112. Bucher, A., **Shao, H.**, Grimm, R., Schönfelder, S., Randow, J., **Vienken, T.**, **Rink, K.**, Zschoke, K. (Hrsg., 2024):
EASyQuart - Energieeffiziente Auslegung und Planung dezentraler Versorgungsnetze von Stadtquartieren. Heizen und Kühlen unter Nutzung oberflächennaher geologischer Ressourcen
Springer Spektrum, Berlin, Heidelberg, XVI, 299 S. [10.1007/978-3-662-67140-5](https://doi.org/10.1007/978-3-662-67140-5)
1113. Faßbender, K., **Köck, W.** (Hrsg., 2024):
Wege zur Umsetzung der Klimaschutzziele im Umwelt- und Planungsrecht.
Dokumentation des 27. Leipziger Umweltrechtlichen Symposions des Instituts für Umwelt- und Planungsrecht der Universität Leipzig und des Helmholtz-Zentrums für Umweltforschung – UFZ am 30. und 31. März 2023
Leipziger Schriften zum Umwelt- und Planungsrecht 48
Nomos, Baden-Baden, 114 S.
1114. **Henle, K.**, Pogoda, P., Podloucky, R., Geiger, A., **Grimm-Seyfarth, A.** (Hrsg., 2024):
Neue Methoden der Feldherpetologie
Mertensiella 32
Deutsche Gesellschaft für Herpetologie und Terrarienkunde (DGHT), Salzhemmendorf, 272 S.
1115. **Kabisch, S.**, **Rink, D.**, **Banzhaf, E.** (Hrsg., 2024):
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, XXI, 296 S. [10.1007/978-3-662-66916-7](https://doi.org/10.1007/978-3-662-66916-7)
1116. Koch, H., Hofmann, E., **Reese, M.** (Hrsg., 2024):
Handbuch Umweltrecht. 6., überarbeitete Auflage
C.H. Beck, München, LXXVII, 1632 S.
1117. **Shao, H.**, Wang, J., Schäfer, T., Zhang, C.-L., Geckeis, H., **Nagel, T.**, Düsterloh, U., **Kolditz, O.**, Shao, H. (eds., 2024):
Thermo-hydro-mechanical-chemical (THMC) processes in bentonite barrier systems
Terrestrial Environmental Sciences
Springer Nature, Cham, XX, 149 pp. [10.1007/978-3-031-53204-7](https://doi.org/10.1007/978-3-031-53204-7)
1118. Sonnberger, M., Bleicher, A., **Groß, M.** (Hrsg., 2024):
Handbuch Umweltsoziologie. 2. Auflage
Springer VS, Wiesbaden, XV, 929 S. [10.1007/978-3-658-37218-7](https://doi.org/10.1007/978-3-658-37218-7)
1119. Wirth, C., Bruelheide, H., Farwig, N., Marx, J., **Settele, J.** (Hrsg., 2024):
Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, 1256 S. [10.14512/9783987263361](https://doi.org/10.14512/9783987263361)

Buchkapitel

1120. **Ayeh, D.**, Bleicher, A. (2024):
Rohstoffe im 21. Jahrhundert
In: Sonnberger, M., Bleicher, A., Groß, M. (Hrsg.)
Handbuch Umweltsoziologie
Springer / VS, Wiesbaden, S. 391 - 404 [10.1007/978-3-658-37218-7_52](https://doi.org/10.1007/978-3-658-37218-7_52)
1121. **Azarian, M.**, Farani, M.R., Zare, I., Imani, M., Kumar, K., Huh, Y.S., Mostafavi, E. (2024):
Functionalized porphyrins and porphyrin-based nanomaterials for cancer therapy
In: Barabadi, H., Mostafavi, E., Hussain, C.M. (eds.)
Functionalized nanomaterials for cancer research: Applications in treatments, tools and devices
Academic Press / Elsevier, London, p. 329 - 344 [10.1016/B978-0-443-15518-5.00002-1](https://doi.org/10.1016/B978-0-443-15518-5.00002-1)
1122. **Bade, F., Moeller, L.** (2024):
Foam formation during anaerobic digestion of sugar beet - Antifoaming strategies
7th Doctoral Colloquium Bioenergy: 24th/25th September, 2024, DBFZ, Leipzig
DBFZ Tagungsreader 32
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, p. 60 - 61 [10.48480/xa7y-fp21](https://doi.org/10.48480/xa7y-fp21)
1123. Balkau, F., **Bezama, A.**, Sonnemann, G. (2024):
An introduction to sustainable development and LCSA
In: Valdivia, S., Sonnemann, G. (eds.)
Handbook on life cycle sustainability assessment
Edward Elgar, Cheltenham, p. 2 - 16 [10.4337/9781800378650.00010](https://doi.org/10.4337/9781800378650.00010)
1124. **Banzhaf, E., Kabisch, S., Rink, D.** (2024):
Das Stadtlabor Leipzig am UFZ
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 91 - 94 [10.1007/978-3-662-66916-7_6](https://doi.org/10.1007/978-3-662-66916-7_6)

1125. Barth, B., **Bolte, L., Grimm-Seyfarth, A., Henle, K.,** Seyring, M. (2024):
Empfehlungen zur Ermittlung von Bestandstrends der Pionieramphibien
Kreuzkröte (*Epidalea calamita*) und Wechselkröte (*Bufo viridis*) in
hochdynamischen Tagebaulandschaften [Recommendations for surveys on
population trends of the pioneer species natterjack toad (*Epidalea calamita*) and
the green toad (*Bufo viridis*) in very dynamic large-scale mining landscapes]
In: Henle, K., Pogoda, P., Podloucky, R., Geiger, A., Grimm-Seyfarth, A. (Hrsg.)
Neue Methoden der Feldherpetologie
Mertensiella 32
Deutsche Gesellschaft für Herpetologie und Terrarienkunde (DGHT), Salzhemmendorf,
S. 134 - 147
1126. Becker, A.M., **Helbig, C., Mohamdeen, A.,** Masson, T., **Schlink, U.** (2024):
Environmental tracking for healthy mobility
In: Burghardt, D., Demidova, E., Keim, D.A. (eds.)
Volunteered geographic information. Interpretation, visualization and social context
Springer, Berlin, Heidelberg, New York, p. 221 - 239 [10.1007/978-3-031-35374-1_11](https://doi.org/10.1007/978-3-031-35374-1_11)
1127. **Bezama, A., Hildebrandt, J., Thrän, D.** (2024):
Urbane Bioökonomie als Bestandteil resilienter Stadtentwicklung
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 55 - 69 [10.1007/978-3-662-66916-7_4](https://doi.org/10.1007/978-3-662-66916-7_4)
1128. **Borchardt, D.** (2024):
Warum eine "Wasserwende" in Deutschland zwingend notwendig ist
In: Ammermüller, B., Münch, R., Schulz von Thun, F., Wagner, C., Witte, S. (Hrsg.)
Bitte Wenden. Pointierte Beiträge zu den Herausforderungen unserer Zeit
VKU, München; Berlin, S. 90 - 97
1129. Böttcher, M.E., **Mallast, U.,** Massmann, G., Moosdorf, N., Müller-Petke, M., Waska, H.
(2024):
Coastal-groundwater interfaces (submarine groundwater discharge)
In: Krause, S., Hannah, D.M., Grimm, N.B. (eds.)
Ecohydrological interfaces
Wiley, Hoboken, NJ, p. 123 - 147 [10.1002/9781119489702.ch6](https://doi.org/10.1002/9781119489702.ch6)
1130. Bruelheide, H., Wirth, C., Farwig, N., **Settele, J.,** Eisenhauer, N., Ellerbrok,
J.S., Hauck, J., Hillebrand, H., Hodapp, D., Marx, J.M., Mehring, M., **Schmidt, A.,**
Sporbert, M., von Sivers, L., **Wittmer, H.** (2024):
Synthese des *Faktencheck* Artenvielfalt
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
*Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der
biologischen Vielfalt in Deutschland*
oekom, München, S. 1179 - 1204 [10.14512/9783987263361](https://doi.org/10.14512/9783987263361)

1131. Bucher, A., **Görke, U.-J.**, Grimm, R., **Hastreiter, N.**, **Kolditz, O.**, Lubashevsky, K., Randow, J., Richter, S., **Rink, K.**, Schönfelder, S., **Shao, H.**, **Vienken, T.**, Zschoke, H.K. (2024):
Einführung in das Verbundvorhaben Easyquart
In: Bucher, A., Shao, H., Grimm, R., Schönfelder, S., Randow, J., Vienken, T., Rink, K., Zschoke, K. (Hrsg.)
EASyQuart - Energieeffiziente Auslegung und Planung dezentraler Versorgungsnetze von Stadtquartieren. Heizen und Kühlen unter Nutzung oberflächennaher geologischer Ressourcen
Springer Spektrum, Berlin, Heidelberg, S. 1 - 43 [10.1007/978-3-662-67140-5_1](https://doi.org/10.1007/978-3-662-67140-5_1)
1132. **Büttner, L.**, **Rink, D.** (2024):
Die Wärmewende kommunal gestalten. Potenziale und Probleme des Quartiersansatzes am Beispiel Leipzigs
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 111 - 126 [10.1007/978-3-662-66916-7_8](https://doi.org/10.1007/978-3-662-66916-7_8)
1133. **de Brito, M.M.**, **Sodoge, J.** (2024):
Computational Social Sciences in der Umweltsoziologie
In: Sonnberger, M., Bleicher, A., Groß, M. (Hrsg.)
Handbuch Umweltsoziologie
Springer VS, Wiesbaden, S. 521 - 535 [10.1007/978-3-658-37218-7_14](https://doi.org/10.1007/978-3-658-37218-7_14)
1134. Dieckmann, M., **Reese, M.** (2024):
§ 8 Kreislaufwirtschafts- und Abfallrecht
In: Koch, H., Hofmann, E., Reese, M. (Hrsg.)
Handbuch Umweltrecht. 6., überarbeitete Auflage
C.H. Beck, München, S. 531 - 592
1135. Eisenhauer, N., Ristock, C., Guerra, C.A., Tebbe, C.C., Xylander, W., Babin, D., **Bartkowski, B.**, Burkhard, B., Filser, J., Glante, F., Hohberg, K., **Kleemann, J.**, Kolb, S., Lachmann, C., Lehmitz, R., Rillig, M., Römbke, J., Rueß, L., Scheu, S., Scheunemann, N., Steinhoff-Knopp, B., Wellbrock, N., Ballasus, H., Rhein, R., Roß-Nickoll, M., Toschki, A. (2024):
Bodenbiodiversität
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 917 - 1047 [10.14512/9783987263361](https://doi.org/10.14512/9783987263361)

1136. Fatima, H., Park, M., Ameen, M., Aslam, I., Athar, T., Shah, S.S.H., Abbasi, G.H., Ali, M., **Abdul Waris, A.**, Arshad, M.N., Ayub, M.A. (2024):
Soil security to address potential global issues
In: Jatav, H.S., Minikina, T., Singh, S.K., Singh, B. (eds.)
Environmental nexus for resource management
CRC Press, Boca Raton, FL, p. 81 - 113 [10.1201/9781003358169-5](https://doi.org/10.1201/9781003358169-5)
1137. Feld, C.K., Nguyen, H.H., Haase, P., Hering, D., Schmedtje, U., Pahl-Wostl, C., von Fumetti, S., Freyhof, J., Hahn, H.J., Haubrock, P.J., Jähnig, S., Januschke, K., **Klauert, B., Reese, M.**, Sommerwerk, N., Straile, D., Tanneberger, F., Poßer, C., Scheunemann, N., Ristok, C. (2024):
Binnengewässer und Auen
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 521 - 646 [10.14512/9783987263361](https://doi.org/10.14512/9783987263361)
1138. **Gawel, E.** (2024):
Bioökonomie: Ökonomische Aspekte
In: Lanzerath, D., Wagner, R. (Hrsg.)
Bioökonomie: Sozioökonomische und politikwissenschaftliche, rechtliche, ökonomische und ethische Aspekte
Ethik in den Biowissenschaften – Sachstandsberichte des DRZE 27
Alber, Freiburg, S. 61 - 98 [10.5771/9783495992081](https://doi.org/10.5771/9783495992081)
1139. **Gebhardt, O., Kuhlicke, C.** (2024):
Co-evaluation: How to measure achievements in complex co-production projects?
ANYWHERE's contribution to enhance emergency management of weather and climate events
In: Sempere-Torres, D., Karakostas, A., Rossi, C., Quevauviller, P. (eds.)
Responding to extreme weather events
Wiley, Hoboken, NJ, p. 163 - 180 [10.1002/9781119741374.ch8](https://doi.org/10.1002/9781119741374.ch8)
1140. **Grimm-Seyfarth, A., Harms, W.** (2024):
Evaluierung von herpetofaunistischen Spürhunden für Monitoring und Naturschutz
[Evaluation of detection dogs for herpetofauna in monitoring and conservation]
In: Henle, K., Pogoda, P., Podlousky, R., Geiger, A., Grimm-Seyfarth, A. (Hrsg.)
Neue Methoden der Feldherpetologie
Mertensiella 32
Deutsche Gesellschaft für Herpetologie und Terrarienkunde (DGHT), Salzhemmendorf,
S. 66 - 79

1141. **Groß, M.** (2024):
Urbane Resilienz, Realexperimente und die Stadt als Labor: Zum paradoxen Zusammenhang von Beharrungsvermögen und Veränderung
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 23 - 37 [10.1007/978-3-662-66916-7_2](https://doi.org/10.1007/978-3-662-66916-7_2)
1142. **Groß, M.** (2024):
Ecological surprise
In: Overdest, C. (ed.)
Elgar encyclopedia of environmental sociology
Elgar Encyclopedias in Sociology
Edward Elgar, Cheltenham, p. 195 - 199 [10.4337/9781803921044.ch35](https://doi.org/10.4337/9781803921044.ch35)
1143. **Haase, A., Schmidt, A.** (2024):
Impulse für eine kritische Debatte zur resilienten Stadtentwicklung am Beispiel der grünen Gentrifizierung
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 39 - 53 [10.1007/978-3-662-66916-7_3](https://doi.org/10.1007/978-3-662-66916-7_3)
1144. **Haase, A., Schmidt, A., Rink, D.** (2024):
Grüne Gentrifizierung: Impulse für eine kritische Perspektive auf Stadtgrün und nachhaltige Stadtentwicklung
In: Sonnberger, M., Bleicher, A., Groß, M. (Hrsg.)
Handbuch Umweltsoziologie
Springer VS, Wiesbaden, S. 419 - 431 [10.1007/978-3-658-37218-7_57](https://doi.org/10.1007/978-3-658-37218-7_57)
1145. **Haase, D.,** Keil, P., Mascarenhas, A., **Kaiser, J.,** Albert, C., Mayer, F., Fischer, L.K., Strohbach, M.W., Egerer, M., Bartz, R., **Knapp, S.,** Kramer-Schadt, S., Straka, T., Rhein, B., Wellmann, T., **Kleemann, J.,** Rillig, M., Ristok, C. (2024):
Urbane Räume
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 787 - 916 [10.14512/9783987263361](https://doi.org/10.14512/9783987263361)
1146. Hartmann, H., Hofbauer, H., Kaltschmitt, M., Moosmann, D., Stampfer, K., **Thrän, D.** (2024):
Bereitstellungskonzepte
In: Kaltschmitt, M., Stampfer, K. (Hrsg.)
Energie aus Biomasse: Ressourcen und Bereitstellung
Energie aus Biomasse 4
Springer Vieweg, Wiesbaden, S. 343 - 480 [10.1007/978-3-658-40828-2_6](https://doi.org/10.1007/978-3-658-40828-2_6)

1147. Hartmann, H., Hofbauer, H., Kaltschmitt, M., Schultz, J., Siegmund, T., Stampfer, K., **Thrän, D.** (2024):
Einleitung und Zielsetzung
In: Kaltschmitt, M., Stampfer, K. (Hrsg.)
Energie aus Biomasse: Ressourcen und Bereitstellung
Energie aus Biomasse 4
Springer Vieweg, Wiesbaden, S. 1 - 89 [10.1007/978-3-658-40828-2_1](https://doi.org/10.1007/978-3-658-40828-2_1)
1148. **Hastreiter, N.**, Henker, S., **Pohle, M.**, **Werban, U.**, **Vienken, T.** (2024):
Erkundung und Monitoring auf Quartiersebene
In: Bucher, A., Shao, H., Grimm, R., Schönfelder, S., Randow, J., Vienken, T., Rink, K., Zschoke, K. (Hrsg.)
EASyQuart - Energieeffiziente Auslegung und Planung dezentraler Versorgungsnetze von Stadtquartieren. Heizen und Kühlen unter Nutzung oberflächennaher geologischer Ressourcen
Springer Spektrum, Berlin, Heidelberg, S. 53 - 84 [10.1007/978-3-662-67140-5_3](https://doi.org/10.1007/978-3-662-67140-5_3)
1149. **Hauck, J.**, Schreiner, V., Grunewald, K., **Kleemann, J.**, **Knauf, S.**, Kolkman, M., Mehring, M., Poßer, C., Potthast, T., **Schleyer, C.**, Warner, B., **Wittmer, H.**, **Böhning-Gaese, K.**, Meya, J., Fürst, C., **Albert, C.**, Ansorge, H., Behnen, T., Bieling, C., Bökenkamp, A., Brietzke, A., Egermann, M., Eschke, N., Fernandez, N., **Förster, J.**, García Ruales, J., Geidezis, L., Gerner, N., Gutmann, A., Hietel, E., Lenz, R., Mann, G., **Massenberg, J.R.**, Maurer, F., Meyer, B., Müller, J., Papilloud, C., Penker, M., Schumacher, H., Schumann, H., Sommerhäuser, M., Straka, T.M., Suntken, S., Talanow, K., Westerling, S., **Wildner, T.M.**, Zieschank, R. (2024):
Transformationspotenziale zum Erhalt der biologischen Vielfalt
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt: Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 1121 - 1777 [10.14512/9783987263378](https://doi.org/10.14512/9783987263378)
1150. **Helbig, C.**, Becker, A.M., Haufer, A.-L., Masson, T., **Mohamdeen, A.**, **Schlink, U.** (2024):
Individuelle gesundheitsrelevante Umweltexpositionen im Rad- und Fußverkehr – Trends, Auswirkungen und eine Fallstudie zu Resilienz gegenüber Umweltstressoren
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 231 - 245 [10.1007/978-3-662-66916-7_15](https://doi.org/10.1007/978-3-662-66916-7_15)

1151. Henker, S., **Hastreiter, N.**, Randow, J., **Rink, K.**, Satke, P., **Vienken, T.**, Zschoke, H.K. (2024):
Standorte und Standortmodelle
In: Bucher, A., Shao, H., Grimm, R., Schönfelder, S., Randow, J., Vienken, T., Rink, K., Zschoke, K. (Hrsg.)
EASyQuart - Energieeffiziente Auslegung und Planung dezentraler Versorgungsnetze von Stadtquartieren. Heizen und Kühlen unter Nutzung oberflächennaher geologischer Ressourcen
Springer Spektrum, Berlin, Heidelberg, S. 45 - 52 [10.1007/978-3-662-67140-5_2](https://doi.org/10.1007/978-3-662-67140-5_2)
1152. **Henle, K.**, Pogoda, P., Podloucky, R., Geiger, A., **Grimm-Seyfarth, A.** (2024):
Vorwort
In: Henle, K., Pogoda, P., Podloucky, R., Geiger, A., Grimm-Seyfarth, A. (Hrsg.)
Neue Methoden der Feldherpetologie
Mertensiella 32
Deutsche Gesellschaft für Herpetologie und Terrarienkunde (DGHT), Salzhemmendorf, S. 4 - 5
1153. **Hertel, D., Pöbneck, J., Kabisch, S., Schlink, U.** (2024):
Hitzestress in Stadtquartieren – Methodik und empirische Belege unter Nutzung des *Planetary-Health*-Ansatzes
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 247 - 266 [10.1007/978-3-662-66916-7_16](https://doi.org/10.1007/978-3-662-66916-7_16)
1154. Horn, R., Becher, H.H., Carminati, A., Dörner, J., Fleige, H., Gerke, H.H., Holthausen, D., Janssen, M., Lennartz, B., Liu, H., **Vogel, H.J.**, Wendroth, O., Yang, Y., Bachmann, J. (2024):
Bodenphysik
In: Blume, H.-P., Stahr, K., Fischer, W., Guggenberger, G., Horn, R., Frede, H.-G., Felix-Henningsen, P. (Hrsg.)
Handbuch der Bodenkunde
[10.1002/9783527678495.hbbk2021007](https://doi.org/10.1002/9783527678495.hbbk2021007)
1155. Hramatyk, M., **Yamborko, N.**, Iutynska, G., Biliavska, L., Dordević, D., Vítězová, M., Kushkevych, I. (2024):
Soil microorganisms' role in the bioremediation of various sites contaminated with the cyclic organochlorine pollutant hexachlorobenzene
In: Shah, M.P., Shah, N. (eds.)
Development in waste water treatment research and processes: Role of environmental microbiology in industrial wastewater research
Elsevier, Amsterdam, p. 227 - 254 [10.1016/B978-0-443-13609-2.00008-2](https://doi.org/10.1016/B978-0-443-13609-2.00008-2)

1156. Jemec Kokalj, A., Drobne, D., Novak, S., **Kühnel, D.** (2024):
Engineered nanomaterials
In: Vighi, M. (ed.)
General principles of ecological risk assessment: Protecting ecosystems in the third millennium
Cambridge Scholars Publishing, Cambridge, p. 382 - 393
1157. **Kabisch, S., Pöbneck, J.** (2024):
Wenn die Existenz auf dem Spiel steht – Zum Umgang mit Krisen auf Quartiersebene am Beispiel von Großwohnsiedlungen
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 127 - 141 [10.1007/978-3-662-66916-7_9](https://doi.org/10.1007/978-3-662-66916-7_9)
1158. **Kabisch, S., Pöbneck, J.** (2024):
Wohnen mittels Langzeitstudien erforschen. Zur Perspektive der Bewohner:innen auf die Dynamik des Wohnens
In: Meuth, M., von Mende, J., Krah, A.J., Althaus, E. (Hrsg.)
Wohnen erforschen. Qualitative Methoden und forschungspraktische Reflexionen
Transcript, Bielefeld, S. 229 - 241
1159. **Karutz, R., Zozmann, H., Wollschläger, N., Schlink, U.** (2024):
Fassadenbegrünung als multifunktionales Anpassungsinstrument gegen Hitze: Ergebnisse des Leipziger Pilotprojekts „Lebendige Wände“
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 199 - 213 [10.1007/978-3-662-66916-7_13](https://doi.org/10.1007/978-3-662-66916-7_13)
1160. **Kasperidus, H.D., Henle, K., Klinger, H.** (2024):
Nachtrag zu: Das Herpetometer – ein Gerät zur exakten und schonenden Längen- und Massemessung von Schlangen, Schleichen und Eidechsen im Feld [The Herpetometer - a device for exact and gentle length and mass measurement of snakes, crawlers and lizards in the field]
In: Henle, K., Pogoda, P., Podlousky, R., Geiger, A., Grimm-Seyfarth, A. (Hrsg.)
Neue Methoden der Feldherpetologie
Mertensiella 32
Deutsche Gesellschaft für Herpetologie und Terrarienkunde (DGHT), Salzhemmendorf, S. 37 - 39

1161. Kerkmann, J., Heym, A., **Möckel, S.**, Schütte, P., Gebirg, M., Gurreck, M., Schlacke, S. (2024):
Kapitel 1 Allgemeine Vorschriften. § 7 Begriffsbestimmungen
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 2. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 190 - 194
1162. Klein, A.-M., Thompson, A., Lakner, S., Mupepele, A.-C., Paetow, H., Sponagel, C., Bieling, C., Bleidorn, C., Breitzkreuz, L., Hasenöhr, U., Sommer, M., Tanneberger, F., Bruelheide, H., Muus, K., **Schmidt, A., Settele, J.**, Sporbert, M., **Kühn, I., Buscot, F.**, Otto, P., **Böhning-Gaese, K.**, Fornoff, F., Ssymank, A., **Musche, M., Harpke, A., Bartkowski, B.**, Eisenhauer, N., **Ristok, C.**, Tebbe, C.C., **von Hagenow, C.S.**, Schoof, N., Schreiner, V., Mehring, M., Morhart, C. (2024):
Agrar- und Offenland
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 217 - 355 [10.14512/9783987263361](https://doi.org/10.14512/9783987263361)
1163. **Klickermann, F.**, Schwartzkopff, M. (2024):
Assessment of key EU regulation concerning the trade in hazardous pesticides
In: Bombardi, L.M., Ribeiro, S.A., da Silva, C.G. (eds.)
Impacts of pesticides use and international regulation = Impactos do uso de agrotóxicos e a regulação internacional
International Pesticide Standard Alliance (IPSA), p. 127 - 149
1164. **Knapp, S., Dushkova, D.** (2024):
Straßenbäume im Klimawandel: Ein Beispiel für die Gestaltung resilienter grüner Infrastrukturen mithilfe der Biodiversität und partizipativer Prozesse
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 181 - 197 [10.1007/978-3-662-66916-7_12](https://doi.org/10.1007/978-3-662-66916-7_12)
1165. **Köck, W.** (2024):
Kapitel 5 Schutz der wild lebenden Tier- und Pflanzenwelt, ihrer Lebensstätten und Biotope. Abschnitt 2 Allgemeiner Artenschutz. Vorbemerkungen zu §§ 40-40f
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 2. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 753 - 760

1166. **Köck, W.** (2024):
Kapitel 5 Schutz der wild lebenden Tier- und Pflanzenwelt, ihrer Lebensstätten und Biotope. Abschnitt 2 Allgemeiner Artenschutz. § 40 Ausbringen von Pflanzen und Tieren
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 2. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 760 - 770
1167. Krause, S., Abbott, B.W., Baranov, V., Bernal, S., Blaen, P., Datry, T., Drummond, J., **Fleckenstein, J.H.**, Gomez Velez, J., Hannah, D.M., Knapp, J.L.A., Kurz, M., Lewandowski, J., Martí, E., Mendoza-Lera, C., Milner, A., Packman, A., Pinay, G., Ward, A.S., Zarnetzke, J.P. (2024):
Organizational principles of hyporheic exchange flow and biogeochemical cycling in river networks across scales
In: Krause, S., Hannah, D.M., Grimm, N.B. (eds.)
Ecohydrological interfaces
Wiley, Hoboken, NJ, p. 63 - 101 [10.1002/9781119489702.ch4](https://doi.org/10.1002/9781119489702.ch4)
1168. Krause, S., Lewandowski, J., Grimm, N.B., Hannah, D.M., Pinay, G., McDonald, K., Martí, E., Argerich, A., Pfister, L., Klaus, J., Battin, T., Larned, S.T., Schelker, J., **Fleckenstein, J.H.**, **Schmidt, C.**, Rivett, M.O., Watts, G., Sabater, F., Sorolla, A., Turk, V. (2024):
Ecohydrological interfaces as hotspots of ecosystem processes
In: Krause, S., Hannah, D.M., Grimm, N.B. (eds.)
Ecohydrological interfaces
Wiley, Hoboken, NJ, p. 1 - 28 [10.1002/9781119489702.ch1](https://doi.org/10.1002/9781119489702.ch1)
1169. **Kuhlicke, C., de Brito, M.M., Otto, D., Reckhaus, Z.** (2024):
Resilienter wiederaufbauen? Erste Thesen zur Rekonfiguration hydrosozialer Territorien nach dem Hochwasser 2021
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 267 - 281 [10.1007/978-3-662-66916-7_17](https://doi.org/10.1007/978-3-662-66916-7_17)
1170. **Kuhlicke, C.** (2024):
Resilienz und Risiko
In: Sonnberger, M., Bleicher, A., Groß, M. (Hrsg.)
Handbuch Umweltsoziologie. 2. Auflage
Springer VS, Wiesbaden, S. 711 - 723 [10.1007/978-3-658-37218-7_31](https://doi.org/10.1007/978-3-658-37218-7_31)

1171. Lakner, S., Grüner, S., Sommer, P., Hasenöhr, U., Turk, Z., Böhner, H., **Klauer, B.**, Koch, M., Meyer-Jürshof, M., Mupepele, A.-C., Mascarenhas, A., Klein, A.-M., Paul, C., Jansen, F., Mehring, M., **Tanneberger, F.**, Winkler, H., **Pe'er, G.**, Paetow, H. (2024):
Indirekte Treiber der Biodiversitätsentwicklung
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 1049 - 1119 [10.14512/9783987263361](https://doi.org/10.14512/9783987263361)
1172. Laskowski, S.R., **Reese, M.**, Ziehm, C. (2024):
§ 6 Wasserrecht
In: Koch, H., Hofmann, E., Reese, M. (Hrsg.)
Handbuch Umweltrecht. 6., überarbeitete Auflage
C.H. Beck, München, S. 401 - 477
1173. **Leipold, S.**, Kopp, M. (2024):
Circular economy
In: Overdevest, C. (ed.)
Elgar encyclopedia of environmental sociology
Elgar Encyclopedias in Sociology
Edward Elgar, Cheltenham, p. 29 - 36 [10.4337/9781803921044.ch08](https://doi.org/10.4337/9781803921044.ch08)
1174. Li, F., Diop, S., Hirwa, H., Maesho, S., Ning, X., Tian, C., Qiao, Y., Faye, C., Cissé, B., Guisse, A., **Leng, P.**, Peng, Y., Chen, G. (2024):
Dryland social-ecological systems in Africa
In: Fu, B., Stafford-Smith, M. (eds.)
Dryland social-ecological systems in changing environments
Springer Singapore, Singapore, [10.1007/978-981-99-9375-8_9](https://doi.org/10.1007/978-981-99-9375-8_9)
1175. Li, N., Zahra, S., **de Brito, M.M.**, Flynn, C.M., Görnerup, O., Worou, K., Kurfah, M., Meng, C., Thiery, W., **Zscheischler, J.**, Messori, G., Nivre, J. (2024):
Using LLMs to build a database of climate extreme impacts
In: Stambach, D., Ni, J., Schimanski, T., Dutia, K., Singh, A., Bingler, J., Christiaen, C., Kushwaha, N., Muccione, V., Vaghefi, S.A., Leipold, M. (eds.)
Proceedings of the 1st Workshop on Natural Language Processing Meets Climate Change (ClimateNLP 2024), Bangkok, Thailand, August 16, 2024
Association for Computational Linguistics, Kerrville, p.
93 - 110 [10.18653/v1/2024.climatenlp-1.7](https://doi.org/10.18653/v1/2024.climatenlp-1.7)

1176. Liu, G., Devlin, J.F., **Dietrich, P.**, Butler jr., J.J. (2024):
High-resolution characterization of the shallow unconsolidated subsurface using direct push, nuclear magnetic resonance, and groundwater tracing technologies
In: García-Rincón, J., Gatsios, E., Lenhard, R., Atekwana, E.A., Naidu, R. (eds.)
Advances in the characterisation and remediation of sites contaminated with Petroleum Hydrocarbons
Environmental Contamination Remediation and Management
Springer Nature, Cham, p. 171 - 212 [10.1007/978-3-031-34447-3_7](https://doi.org/10.1007/978-3-031-34447-3_7)
1177. Mählmann, J., Taubner, R., Blumberg, M., Alwan, M., Schweizer, M., Mourgas, G., Schramm, N., Neubert, M., **Moeller, L.**, **Rahman, K.Z.** (2024):
Entwicklung eines textilbasierten Dachbiofilters auf Biopolymerbasis für die Grauwasserreinigung
18. Chemnitzer Textiltechnik-Tagung, 24./25. September 2024
Förderverein Cetex Chemnitzer Textilmaschinenentwicklung e.V., Chemnitz, S. 199 - 205
1178. **Markus, T.**, Verheyen, R. (2024):
§ 1 Umweltvölkerrecht
In: Koch, H., Hofmann, E., Reese, M. (Hrsg.)
Handbuch Umweltrecht. 6., überarbeitete Auflage
C.H. Beck, München, S. 1 - 61
1179. Marx, J.M., Ellerbrok, J.S., **Schmidt, A.**, Spatz, T., Sporberr, M., von Sivers, L., Bruelheide, H., Farwig, N., **Settele, J.**, Wirth, C. (2024):
Themenbereiche im *Faktencheck Artenvielfalt*
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 141 - 215 [10.14512/9783987263361](https://doi.org/10.14512/9783987263361)
1180. **Matzner, N.** (2024):
Digitale Kultur und Kultur der Digitalisierung im Theater. Ein Vergleich von Deutschland und Rumänien in der Corona-Krise
In: Ehrensperger, E., Behringer, J., Decker, M., Droste-Franke, B., Heyen, N.B., Sotoudeh, M., Weimert, B. (Hrsg.)
Gestreamt, gelikt, flüchtig – schöne neue Kulturwelt? Digitalisierung und Kultur im Licht der Technikfolgenabschätzung
Gesellschaft - Technik - Umwelt 25
Nomos, Baden-Baden, S. 363 - 379 [10.5771/9783748943815-363](https://doi.org/10.5771/9783748943815-363)

1181. **Matzner, N.**, Wieser, M. (2024):
Umstrittene Digitalkultur beim Bachmannpreis
In: Ehrensperger, E., Behringer, J., Decker, M., Droste-Franke, B., Heyen, N.B.,
Sotoudeh, M., Weimert, B. (Hrsg.)
*Gestreamt, gelikt, flüchtig – schöne neue Kulturwelt? Digitalisierung und Kultur im Licht
der Technikfolgenabschätzung*
Gesellschaft - Technik - Umwelt 25
Nomos, Baden-Baden, S. 199 - 214 [10.5771/9783748943815-199](https://nbn-resolving.org/urn:nbn:de:hbz:5:1-65882-p0199-9)
1182. **Mehmood, T.**, Bibi, S., Shafqat, M., Mustafa, B., Peng, L., Ilic, P., Anwar-ul-Haq, M.,
Sattar, M., Faheem, M. (2024):
Water purification and role of nanobiotechnology
In: Faheem, M., Ditta, A., Du, J. (eds.)
Nanomaterials in industrial chemistry
CRC Press, Boca Raton, FL, p. 108 - 135 [10.1201/9781003334644-5](https://nbn-resolving.org/urn:nbn:de:hbz:5:1-65882-p0199-9)
1183. Meisel, K., **Jordan, M.**, **Dotzauer, M.**, Schröder, J., Lenz, V., Naumann, K.,
Cyffka, K.-F., Dögnitz, N., Schindler, H., Daniel-Gromke, J., Costa de Paiva, G.,
Schmid, C., Szarka, N., Majer, S., Müller-Langer, F., **Thrän, D.** (2024):
Die Schlüsselrolle von Biomethan in der Energiewende
*DBFZ-Jahrestagung 2024: Multitalent Biomasse: Basisrohstoff, Kohlenstoffträger und
Energieoption, 11./12. September 2024*
Tagungsreader / DBFZ 31
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige
GmbH, Leipzig, S. 40 - 49 [10.48480/ywvp-nw30](https://nbn-resolving.org/urn:nbn:de:hbz:5:1-65882-p0199-9)
1184. Meisel, K., **Jordan, M.**, **Thrän, D.** (2024):
Rolle der holzigen Biomasse im zukünftigen Energiesystem
In: Kern, M., Raussen, T. (Hrsg.)
Potenziale der Bioabfälle vollständig erschließen
Witzenhausen-Institut für Abfall, Umwelt und Energie, Witzenhausen, S. 103 - 112
1185. **Möckel, S.** (2024):
Kapitel 4 Schutz bestimmter Teile von Natur und Landschaft. Abschnitt 2 Netz "Natura
2000". § 36 Pläne
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 3. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 717 - 723

1186. **Möckel, S.** (2024):
Kapitel 4 Schutz bestimmter Teile von Natur und Landschaft. Abschnitt 2 Netz "Natura 2000". § 32 Schutzgebiete
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 3. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 573 - 622
1187. **Möckel, S.** (2024):
Kapitel 4 Schutz bestimmter Teile von Natur und Landschaft. Abschnitt 2 Netz "Natura 2000". § 33 Allgemeine Schutzvorschriften
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 3. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 622 - 635
1188. **Möckel, S.** (2024):
Kapitel 4 Schutz bestimmter Teile von Natur und Landschaft. Abschnitt 2 Netz "Natura 2000". § 31 Aufbau und Schutz des Netzes "Natura 2000"
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 3. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 563 - 572
1189. **Möckel, S.** (2024):
Kapitel 4 Schutz bestimmter Teile von Natur und Landschaft. Abschnitt 2 Netz "Natura 2000". Vorbemerkungen zu §§ 31-36
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 3. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 550 - 562
1190. **Möckel, S.** (2024):
Kapitel 4 Schutz bestimmter Teile von Natur und Landschaft. Abschnitt 2 Netz "Natura 2000". § 34 Verträglichkeit und Zulässigkeit von Projekten; Ausnahmen
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 3. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 636 - 710

1191. **Möckel, S.** (2024):
Kapitel 4 Schutz bestimmter Teile von Natur und Landschaft. Abschnitt 2 Netz "Natura 2000". § 35 Gentechnisch veränderte Organismen
In: Schlacke, S. (Hrsg.)
GK-BNatSchG: Gemeinschaftskommentar zum Bundesnaturschutzgesetz. 3. Aufl.
Gemeinschaftskommentare zum Umweltrecht
Heymanns, Köln, S. 711 - 716
1192. **Moeller, L., Knapp, S., Schmauck, S., Otto, P., Schlosser, D., Wick, L.Y., Georgi, A., Friesen, J., Ueberham, M., Trabitzsch, R., Wollschläger, N., Schlink, U., Hofmann, D., Müller, R.A., Mackenzie, K.** (2024):
Gründächer im urbanen Raum und ihre Ökosystemleistungen
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 165 - 180 [10.1007/978-3-662-66916-7_11](https://doi.org/10.1007/978-3-662-66916-7_11)
1193. Müller, J., Lettenmaler, L., Mergner, U., Paul, C., Ammer, C., Bässler, C., Braunisch, V., Brunzel, S., Englmeier, J., Georgiev, K., Gossner, M., Höltermann, A., Kamp, J., Kleinschmitt, D., Krah, F.-S., Lieber, K.-H., Marx, J.M., Meyer, P., Michler, B., von Ohelmb, G., Peters, W., Sanders, T., Sotirov, M., Schuldt, A., Wirth, C., Bösch, M., Eisenhauer, N., Ellerbrok, J.S., Elsasser, P., Gebhardt, T., Hauck, J., Hendel, A.-L., Husmann, K., Ristok, C., Rödel, M.-O., **Schmidt, A.**, Schüler, E., von Hoermann, C., Welmar, H., Wellbrock, N. (2024):
Wald
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt: Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 357 - 520 [10.14512/9783987263378](https://doi.org/10.14512/9783987263378)
1194. **Otto, D.** (2024):
Umweltgerechtigkeit
In: Sonnberger, M., Bleicher, A., Groß, M. (Hrsg.)
Handbuch Umweltsoziologie
Springer VS, Wiesbaden , S. 611 - 624 [10.1007/978-3-658-37218-7_32](https://doi.org/10.1007/978-3-658-37218-7_32)
1195. **Pöbneck, J., Kabisch, S.** (2024):
Sanierungsprozesse in Bestandsquartieren: Herausforderungen, Akteure, Lösungsansätze
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 95 - 110 [10.1007/978-3-662-66916-7_7](https://doi.org/10.1007/978-3-662-66916-7_7)

1196. Randow, J., Bucher, A., **Görke, U.-J.**, Grimm, R., **Hastreiter, N.**, **Kolditz, O.**, Lubashevsky, K., Richter, S., **Rink, K.**, Schönfelder, S., **Shao, H.**, **Vienken, T.**, Zschoke, H.K. (2024):
Fazit und Ausblick
In: Bucher, A., Shao, H., Grimm, R., Schönfelder, S., Randow, J., Vienken, T., Rink, K., Zschoke, K. (Hrsg.)
EASyQuart - Energieeffiziente Auslegung und Planung dezentraler Versorgungsnetze von Stadtquartieren. Heizen und Kühlen unter Nutzung oberflächennaher geologischer Ressourcen
Springer Spektrum, Berlin, Heidelberg, S. 275 - 283 [10.1007/978-3-662-67140-5_8](https://doi.org/10.1007/978-3-662-67140-5_8)
1197. Richter, S., Randow, J., **Shao, H.**, Lubashevsky, K., Henker, S., Bucher, A. (2024):
Benchmarks
In: Bucher, A., Shao, H., Grimm, R., Schönfelder, S., Randow, J., Vienken, T., Rink, K., Zschoke, K. (Hrsg.)
EASyQuart - Energieeffiziente Auslegung und Planung dezentraler Versorgungsnetze von Stadtquartieren. Heizen und Kühlen unter Nutzung oberflächennaher geologischer Ressourcen
Springer Spektrum, Berlin, Heidelberg, S. 201 - 237 [10.1007/978-3-662-67140-5_6](https://doi.org/10.1007/978-3-662-67140-5_6)
1198. Richter, S., Szarka, N., **Bezama, A.**, **Thrän, D.** (2024):
Explorative scenarios for system integration of biorefineries in cascaded material flows within a future circular bioeconomy in Germany up to 2045
6th Doctoral Colloquium Bioenergy: 18th/19th September, 2023, University of Applied Sciences and Arts, Hildesheim/Holzminden/Göttingen
DBFZ Tagungsreader 28
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, p. 22 - 23 [10.48480/dvmt-q267](https://doi.org/10.48480/dvmt-q267)
1199. **Rink, D.**, **Gebauer, R.**, **Haase, A.**, Intelmann, D., **Kabisch, S.**, **Kuhlicke, C.**, **Schmidt, A.** (2024):
Die resiliente Stadt: Forschungsstand in Deutschland, definitorische und konzeptionelle Überlegungen
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 3 - 21 [10.1007/978-3-662-66916-7_1](https://doi.org/10.1007/978-3-662-66916-7_1)

1200. **Rink, K., Grimm, R., Hastreiter, N., Kroll, P., Remmler, P., Shao, H., Zschoke, H.K.** (2024):
Systemintegration
In: Bucher, A., Shao, H., Grimm, R., Schönfelder, S., Randow, J., Vienken, T., Rink, K., Zschoke, K. (Hrsg.)
EASyQuart - Energieeffiziente Auslegung und Planung dezentraler Versorgungsnetze von Stadtquartieren. Heizen und Kühlen unter Nutzung oberflächennaher geologischer Ressourcen
Springer Spektrum, Berlin, Heidelberg, S. 239 - 273 [10.1007/978-3-662-67140-5_7](https://doi.org/10.1007/978-3-662-67140-5_7)
1201. **Sadr, M., Esmaeili Aliabadi, D., Thrän, D.** (2024):
Modeling the integration of BECCS into German bioenergy system
6th Doctoral Colloquium Bioenergy: 18th/19th September, 2023, University of Applied Sciences and Arts, Hildesheim/Holzminden/Göttingen
DBFZ Tagungsreader 28
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, p. 20 - 21 [10.48480/dvmt-q267](https://doi.org/10.48480/dvmt-q267)
1202. **Sadr, M., Esmaeili Aliabadi, D., Thrän, D.** (2024):
Assessing the potential of negative emission technologies for Germany's netzero target: A techno-economic analysis of forest-based solutions
7th Doctoral Colloquium Bioenergy: 24th/25th September, 2024, DBFZ, Leipzig
DBFZ Tagungsreader 32
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, p. 49 - 49 [10.48480/xa7y-fp21](https://doi.org/10.48480/xa7y-fp21)
1203. **Schicketanz, J.** (2024):
Gesunde und resiliente Quartiere für Kinder
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 217 - 230 [10.1007/978-3-662-66916-7_14](https://doi.org/10.1007/978-3-662-66916-7_14)
1204. **Schmidt, A., Pöbneck, J., Haase, A., Kabisch, S.** (2024):
Quartier und urbane Resilienz: Themenfelder, Befunde und Forschungsbedarf
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 73 - 89 [10.1007/978-3-662-66916-7_5](https://doi.org/10.1007/978-3-662-66916-7_5)
1205. **Schmidt, C., Fleckenstein, J.H.** (2024):
Identifying and quantifying water fluxes at ecohydrological interfaces
In: Krause, S., Hannah, D.M., Grimm, N.B. (eds.)
Ecohydrological interfaces
Wiley, Hoboken, NJ, p. 149 - 165 [10.1002/9781119489702.ch7](https://doi.org/10.1002/9781119489702.ch7)

1206. **Schmidt, C.**, Lewandowski, J., Galloway, J.N., Chalari, A., Ciocca, F., Krause, S., Pfister, L., Antonelli, M. (2024):
Heat as a hydrological tracer
In: Krause, S., Hannah, D.M., Grimm, N.B. (eds.)
Ecohydrological interfaces
Wiley, Hoboken, NJ, p. 167 - 189 [10.1002/9781119489702.ch8](https://doi.org/10.1002/9781119489702.ch8)
1207. **Settele, J.** (2024):
Biodiversität als Versicherung für die Zukunft
In: Gesellschaft für Forschungsförderung Niederösterreich m.B.H., (Hrsg.)
Was werden wir morgen essen? Fragen zur Zukunft der Ernährung. Tagungsband zum 13. Symposium Dürnstein 2024
tredition GmbH, Hamburg, S. 43 - 51
1208. Seyring, M., Barth, B., **Bolte, L.**, Geiger, A., **Grimm-Seyfarth, A.**, Günther, A., Bertram, S., **Kasperidus, H.**, Langbehn, T., Lueg, H., **Henle, K.** (2024):
Empfehlungen zur Etablierung von Standardmethoden zur Ermittlung von Bestandstrends bei Amphibien als Modellgruppe
für Biodiversitätsverlust [Establishing standardized methods for analysing abundance trends of amphibians as a model group to assess the loss of biodiversity]
In: Henle, K., Pogoda, P., Podloucky, R., Geiger, A., Grimm-Seyfarth, A. (Hrsg.)
Neue Methoden der Feldherpetologie
Mertensiella 32
Deutsche Gesellschaft für Herpetologie und Terrarienkunde (DGHT), Salzhemmendorf, S. 90 - 113
1209. Seyring, M., **Henle, K.**, Barth, B., Langbehn, T., Geiger, A. (2024):
Empfehlungen für ein bundeseinheitliches Vorgehen bei der Erfassung von Amphibien-Schutzzaun-Daten zur Unterstützung von Bestandstrendanalysen [Recommendations for standardized data surveys at mobile seasonal fences for amphibians to facilitate analyses of population trends]
In: Henle, K., Pogoda, P., Podloucky, R., Geiger, A., Grimm-Seyfarth, A. (Hrsg.)
Neue Methoden der Feldherpetologie
Mertensiella 32
Deutsche Gesellschaft für Herpetologie und Terrarienkunde (DGHT), Salzhemmendorf, S. 114 - 132

1210. Siol, C., Majer, S., **Thrän, D.** (2024):
Enviromental and economic life-cycle assessment of residual biomasses in agriculture and forestry
6th Doctoral Colloquium Bioenergy: 18th/19th September, 2023, University of Applied Sciences and Arts, Hildesheim/Holzminden/Göttingen
DBFZ Tagungsreader 28
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, p. 18 - 19 [10.48480/dvmt-q267](https://doi.org/10.48480/dvmt-q267)
1211. **Sodoge, J., de Brito, M.M.** (2024):
Computational social sciences in human–water research
In: Koundouri, P., Alamanos, A. (eds.)
Elgar encyclopedia of water policy, economics and management
Edward Elgar, Cheltenham, p. 50 - 52 [10.4337/9781802202946.00018](https://doi.org/10.4337/9781802202946.00018)
1212. Sonnberger, M., Bleicher, A., **Groß, M.** (2024):
Natur und die Wissenschaft von der Gesellschaft: Einleitung zum Handbuch Umweltsoziologie
In: Sonnberger, M., Bleicher, A., Groß, M. (Hrsg.)
Handbuch Umweltsoziologie
Springer Fachmedien, Wiesbaden, S. 1 - 12 [10.1007/978-3-658-37218-7_68](https://doi.org/10.1007/978-3-658-37218-7_68)
1213. Spank, U., Mauder, M., **Aurich, P.**, Bernhofer, C., **Koschorreck, M.** (2024):
Müssen Treibhausgasemissionen und Verdunstungsraten über dem Freiwasserbereich ausgedehnter Wasserflächen neu bewertet werden?
In: Busch, U. (Hrsg.)
10. Fachtagung BIOMET des Fachausschusses Biometeorologie der DMG e.V.: 19. bis 21. März 2024 in Offenbach; Programm und Zusammenfassungen
Annalen der Meteorologie 53
Deutscher Wetterdienst, Offenbach am Main, S. 62 - 65
1214. Tang, Q., **Richnow, H.**, **Nunes da Rocha, U.**, **Nikolausz, M.**, Wei, Y., Zhang, J. (2024):
Fate and risk management of antibiotic resistance genes in anaerobic digestion
In: Liang, B., Gao, S.-H., Wang, H.-C., Wang, A.-J. (eds.)
Water security: Big data-driven risk identification, assessment and control of emerging contaminants
Elsevier, Amsterdam, p. 409 - 419 [10.1016/B978-0-443-14170-6.00029-9](https://doi.org/10.1016/B978-0-443-14170-6.00029-9)
1215. **Thrän, D.**, Kaltschmitt, M., Siegmund, T., Karras, T. (2024):
Nebenprodukte, Rückstände und Abfälle
In: Kaltschmitt, M., Stampfer, K. (Hrsg.)
Energie aus Biomasse: Ressourcen und Bereitstellung
Energie aus Biomasse 4
Springer Vieweg, Wiesbaden, S. 285 - 341 [10.1007/978-3-658-40828-2_5](https://doi.org/10.1007/978-3-658-40828-2_5)

1216. **Wildner, T.M.** (2024):
Unternehmensberichterstattung zu Biodiversität – von freiwilligem Engagement zu verpflichtender Regulierung
Die Zukunft der Wirtschaftsberichterstattung. Ökosystemleistungen und Biodiversität in staatlichen und unternehmerischen Bilanzierungen
Essentials
Springer Vieweg, Wiesbaden, S. 29 - 41 [10.1007/978-3-658-44686-4_4](https://doi.org/10.1007/978-3-658-44686-4_4)
1217. Wirth, C., Bruelheide, H., Farwig, N., **Settele, J.**, Marx, J.M., Ellerbrok, J.S., **Schmidt, A.**, Spatz, T., Sporbert, M., Bieling, C., Eisenhauer, N., Eskildsen, K., Feld, C.K., Freyhof, J., Fürst, C., Grunewald, K., Grüner, S., Guerra, C.A., **Haase, D.**, Haase, P., Hauck, J., Hering, D., Hillebrand, H., Hodapp, D., Jacob, U., Kaiser, J., Keil, P., Klein, A.-M., Lakner, S., Lettenmaier, L., Mascarenhas, A., Mergner, U., Müller, J., Mupepele, A.-C., Nguyen, H.H., Paetow, H., Pahl-Wostl, C., Paul, C., Poßer, C., Quaas, M., Ristok, C., Scheiffarth, G., Schmedtje, U., Schreiner, V., von Sivers, L., Sommer, P., Sponagel, C., Tebbe, C.C., Thompson, A., Wellmann, T., Xylander, W. (2024):
Faktencheck Artenvielfalt. Zusammenfassung für die politische und gesellschaftliche Entscheidungsfindung
In: Wirth, C., Bruelheide, H., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt: Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 31 - 116 [10.14512/9783987263378](https://doi.org/10.14512/9783987263378)
1218. Wirth, C., Farwig, N., Bruelheide, H., **Settele, J.**, Ellerbrok, J.S., Marx, J.M., **Schmidt, A.**, von Sivers, L., Spatz, T., Sporbert, M. (2024):
Einleitung
In: Wirth, C., Bruelheide, H., Farwig, N., Marx, J., Settele, J. (Hrsg.)
Faktencheck Artenvielfalt. Bestandsaufnahme und Perspektiven für den Erhalt der biologischen Vielfalt in Deutschland
oekom, München, S. 117 - 140 [10.14512/9783987263361](https://doi.org/10.14512/9783987263361)
1219. Zandersen, M., **Banzhaf, E.**, **Knopp, J.M.**, Scheffler, J., Levin, G., Guell, C., Wicke, M. (2024):
Naturbasierte Lösungen zur Stärkung der Resilienz in Städten
In: Kabisch, S., Rink, D., Banzhaf, E. (Hrsg.)
Die resiliente Stadt: Konzepte, Konflikte, Lösungen
Springer Spektrum, Berlin, Heidelberg, S. 145 - 164 [10.1007/978-3-662-66916-7_10](https://doi.org/10.1007/978-3-662-66916-7_10)

1220. **Zeug, W., Bezama, A., Thrän, D.** (2024):
Holistic and integrated life cycle sustainability assessment: Background, methods and results from two case studies
6th Doctoral Colloquium Bioenergy: 18th/19th September, 2023, University of Applied Sciences and Arts, Hildesheim/Holzminden/Göttingen
DBFZ Tagungsreader 28
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige
GmbH, Leipzig, p. 22 - 23 [10.48480/dvmt-q267](https://doi.org/10.48480/dvmt-q267)

Berichte

1221. Arnecke, J., **Graß, R.**, Hutschenreuther, T., Knitsch, V., **Kobe, M.**, Krug, S., **Mollenhauer, H.**, Präger, A., Römer, I., Schieck, M., Süß, V., Welz, J. (2024): Der idealtypische digitalisierte Betrieb - Technologien für die Digitalisierung im Wein- und Obstanbau
Fraunhofer-Zentrum für Internationales Management und Wissensökonomie (IMW), Leipzig, 54 S.
1222. **Banzhaf, E.**, Branth Pedersen, A., Fitch, A., Fletcher, D., Hutchins, M., Iversen, S., Jones, L., **Knopp, J.**, Levin, G., Russel, D., Sang, Å.O., Scheffler, J., Spanier, M., Taylor, T., Wyn-Owen, D., Zandersen, M. (2024): Recommendations for potential target values in cities. REGREEN Deliverable 3.5
Zenodo
[10.5281/zenodo.10466785](https://zenodo.org/record/10466785)
1223. **Becker, J.**, **Liess, M.**, Kramer-Schadt, S., Franz, M., Jager, T. (2024): Critical evaluation of effect models for the risk assessment of plant protection products
Texte Umweltbundesamt 41
Umweltbundesamt, Dessau-Roßlau, 596 pp.
1224. Beck-O'Brien, M., Bringezu, S., Banse, M., Barrelet, J., **Bezama, A.**, Bösch, M., Brüning, S., Bühlren, B., Cabezas, A., Cyffka, K.-F., Dzene, I., Gordillo Vera, F., Helander, H., Henke, J., Hennenberg, K., Hinz, R., Iost, S., **Jordan, M.**, Kilian, D., Köppen, S., Kynast, E., Lutz, C., Pereira, S., Pfeiffer, M., Phuntsho, , Pozo Inofuentes, P., Reiss, T., Reuschel, S., Richter, S., Schaldach, R., Scheffler, M., Schomberg, A., Schüngel, A., Schweinle, J., **Thrän, D.**, Wang, M., Weimar, H., Wiegmann, K., Wijesingha, J., Wilske, B., Wydra, S., **Zeug, W.**, **Zinke, C.** (2024): Monitoring der deutschen Bioökonomie - Zusammenfassung
Center for Environmental Systems Research (CESR),
Universität Kassel, Kassel, 21 S. [10.17170/kobra-2024111510678](https://kobra.uni-kassel.de/handle/document/111510678)
1225. Beck-O'Brien, M., Bringezu, S., Banse, M., Barrelet, J., **Bezama, A.**, Bösch, M., Brüning, S., Bühlren, B., Cabezas, A., Cyffka, K.-F., Dzene, I., Gordillo Vera, F., Helander, H., Henke, J., Hennenberg, K., Hinz, R., Iost, S., **Jordan, M.**, Kilian, D., Köppen, S., Kynast, E., Lutz, C., Pereira, S., Pfeiffer, M., Phuntsho, , Pozo Inofuentes, P., Reiss, T., Reuschel, S., Richter, S., Schaldach, R., Scheffler, M., Schomberg, A., Schüngel, A., Schweinle, J., **Thrän, D.**, Wang, M., Weimar, H., Wiegmann, K., Wijesingha, J., Wilske, B., Wydra, S., **Zeug, W.**, **Zinke, C.** (2024): Monitoring the German Bioeconomy: Status, performance, trends and implications for sustainable development
Center for Environmental Systems Research (CESR),
Universität Kassel, Kassel, 193 pp. [10.17170/kobra-2024111510679](https://kobra.uni-kassel.de/handle/document/111510679)

1226. Beck-O'Brien, M., Bringezu, S., Banse, M., Barrelet, J., **Bezama, A.**, Bösch, M., Brüning, S., Bühlren, B., Cabezas, A., Cyffka, K.-F., Dzene, I., Gordillo Vera, F., Helander, H., Henke, J., Hennenberg, K., Hinz, R., Iost, S., **Jordan, M.**, Kilian, D., Köppen, S., Kynast, E., Lutz, C., Pereira, S., Pfeiffer, M., Phuntsho, , Pozo Inofuentes, P., Reiss, T., Reuschel, S., Richter, S., Schaldach, R., Scheffler, M., Schomberg, A., Schüngel, A., Schweinle, J., **Thrän, D.**, Wang, M., Weimar, H., Wiegmann, K., Wijesingha, J., Wilske, B., Wydra, S., **Zeug, W.**, **Zinke, C.** (2024): Monitoring the German Bioeconomy - Summary
Center for Environmental Systems Research (CESR),
Universität Kassel, Kassel, 21 pp. [10.17170/kobra-2024111510677](https://nbn-resolving.org/urn:nbn:de:hbz:5:1-65862-p0111-9)
1227. Bodirsky, B.L., **Gawel, E.**, Hartmann, J., Havermann, F., Kuse, K., May, M., Montero de Oliveira, F.E., Pongratz, J., Rehfeld, K., **Thrän, D.**, von der Assen, N. (2024):
Die Bedeutung einer gezielten CO₂-Entnahme für die Zukunft des Europäischen Emissionshandelssystems (ETS). Herausforderungen bei der Integration von Gutschriften für eine CO₂-Entnahme
Zenodo
6 S. [10.5281/zenodo.14411049](https://zenodo.org/record/14411049)
1228. Bodirsky, B., **Thrän, D.**, **Gawel, E.**, Havermann, F., Hartmann, J., Bauhus, J., Pongratz, J., Rehfeld, K., Kuse, K., May, M., von der Aßen, N. (2024):
Kohlendioxidentnahmeverfahren an Land - wie sie funktionieren und warum wir sie brauchen, um unsere Klimaziele zu erreichen
Zenodo
12 S. [10.5281/zenodo.10997201](https://zenodo.org/record/10997201)
1229. Brödner, R., Cyffka, K.-F., Fais, A., Günther, S., Kalcher, J., Kazmin, S., Naegeli de Torres, F., Radtke, K.S., Selig, M., Sittaro, F., **Thrän, D.**, Wilske, B. (2024):
Biomassepotenziale aus Abfällen und Reststoffen
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, 27 S. [10.5281/zenodo.10404436](https://zenodo.org/record/10404436)
1230. **Bumberger, J.**, **Gey, R.**, **Kollai, H.**, **Rosenow, D.**, **Schnicke, T.** (2024):
Regeln für den verantwortungsvollen Umgang mit Forschungsdaten am Helmholtz-Zentrum für Umweltforschung GmbH - UFZ
Helmholtz-Zentrum für Umweltforschung GmbH – UFZ, Leipzig, 12 S. [10.57699/10k8-av54](https://nbn-resolving.org/urn:nbn:de:hbz:5:1-65862-p0111-9)
1231. **Bumberger, J.**, **Gey, R.**, **Kollai, H.**, **Rosenow, D.**, **Schnicke, T.** (2024):
Principles for the responsible handling of research data at the Helmholtz Centre for Environmental Research - UFZ
Helmholtz-Zentrum für Umweltforschung GmbH – UFZ, Leipzig,
11 pp. [10.57699/ny5g-gd55](https://nbn-resolving.org/urn:nbn:de:hbz:5:1-65862-p0111-9)

1232. **Egli, L.** (2024):
Innovative Modelle für eine nachhaltige und regionale Wertschöpfung: Synergien und Potenziale der Solidarischen Landwirtschaft in Sachsen (InnoLand-Sachsen) - Abschlussbericht
Zenodo
86 S. [10.5281/zenodo.10986415](https://zenodo.org/record/10986415)
1233. El Zohbi, J., Fehr, L., Eberenz, S., Bartels, L., **Fischer, S.**, Gulde, F., Jeménez Martínez, M., Matzner, N., Montero de Oliveira, F.E., **Otto, D.**, Rechid, D., Reinecke, S., Strauss, V., Witting, M. (2024):
Engaging stakeholders in your carbon dioxide removal research. Reflection paper with learnings & recommendations from the CDRterra research programme
Federal Ministry of Education and Research, Berlin, 15 pp. [10.5281/zenodo.13913372](https://zenodo.org/record/13913372)
1234. **Elze, S.**, Petersen, C., Læssøe, J., **Banzhaf, E.**, Jensen, A., Russel, D., Anderson, S. (2024):
Meeting on the map: Innovative platform for stakeholder learning, dialogue and engagement with nature-based solutions (NbS). REGREEN Policy Brief 12/12
REGREEN - Nature-Based Solutions, 4 pp. [10.5281/zenodo.10732498](https://zenodo.org/record/10732498)
1235. Grunewald, K., **Förster, J.**, **Hansjürgens, B.**, **Wildner, T.M.**, Zieschank, R., Beckmann, C., Godau, R., Henseling, C., Korzhenevych, A., Leitschuh, H., Neumann, K., Röser, M., **Sassalos, A.**, Schwarz, S., Sievi, M. (2024):
Wertschätzung von Biodiversität - Zur Modernisierung der Wirtschaftsberichterstattung in Deutschland (Bio-Mo-D). Policy Brief 10/2024
Zenodo
8 S. [10.19217/pol232](https://zenodo.org/record/1019217/policies/232)
1236. **Haase, A.**, **Schmidt, A.** (2024):
Reader und Reflexionen zum Projekt „Neue Nähen - Leipziger SUPERBLOCKS“ - Perspektive der transformativen Forschung
UFZ Report 1/2024
Helmholtz Centre for Environmental Research - UFZ, Leipzig, 76 S. [10.57699/77k7-qk66](https://zenodo.org/record/777k7-qk66)
1237. **Heilemann, J.**, **Klassert, C.**, **Klauer, B.** (2024):
Addressing income inequality and climate change vulnerability in Pune, India: A scenario linkage approach
UFZ Discussion Papers 3/2024
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 20 pp.
1238. **Hempel, H.**, Einhäupl, P., **Escher, B.**, **Heidenreich, M.**, **Leipold, S.**, Schweizer, P.-J., Sielemann, V., **Srebny, V.** (2024):
Mehr Stoffe schneller testen - Potenziale für eine bessere Chemikalienregulierung (Policy Brief)
SynCom, Helmholtz Erde & Umwelt, Berlin, 4 S. [10.48440/syncom.2024.003](https://syncom.berlin.de/record/2024.003)

1239. Hornberg, C., Kemfert, C., Dornack, C., **Köck, W.**, Lucht, W., **Settele, J.**, Töller, A.E. (2024):
Where do we stand with Germany's CO₂ Budget? An Update
German Advisory Council on the Environment (SRU), Berlin, 12 pp.
1240. Hornberg, C., Kemfert, C., Dornack, C., **Köck, W.**, Lucht, W., **Settele, J.**, Töller, A.E. (2024):
Stellungnahme zum Entwurf der Nationalen Kreislaufwirtschaftsstrategie. Impulspapier
Sachverständigenrat für Umweltfragen (SRU), Berlin, 7 S.
1241. Hornberg, C., Kemfert, C., Dornack, C., **Köck, W.**, Lucht, W., **Settele, J.**, Töller, A.E. (2024):
CCS in Deutschland rechtlich auf unvermeidbare Restemissionen begrenzen:
Stellungnahme zur KSpG-Novelle
Sachverständigenrat für Umweltfragen (SRU), Berlin, 10 S.
1242. Hornberg, C., Kemfert, C., Dornack, C., **Köck, W.**, Lucht, W., **Settele, J.**, Töller, A.E., Feindt, P.H., Wolters, V., Bahrs, E., Dauber, J., Finckh, M.R., Jaenicke, H., Kleinschmit, J., Krämer, F., Kreuter-Kirchhof, C., Schleip, I., Tholen, E., Wagner, S., Wätzold, F., Wedekind, H., Weigend, S., Wider, J., Zander, K., Bauhus, J., Kleinschmit, B., Dieter, M., Endres, E., Farwig, N., Hafner, A., Kätzel, R., Knoke, T., Lang, F., Lindner, M., Meyer, P., Müller, J., Schraml, U., Seeling, U., Weber-Blaschke, G. (2024):
Nature restoration: Strengthening biodiversity, managing land sustainably. Statement
June 2024. Summary, Introduction, Conclusion
German Advisory Council on the Environment (SRU), Berlin, 18 pp.
1243. Kerckow, B., **Thrän, D.** (2024):
Implementation of bioenergy in Germany – 2024 update
In: Pelkmans, L. (ed.)
IEA Bioenergy Country Reports 12/2024
IEA Bioenergy, San Casciano in Val di Pesa, 28 pp.
1244. Liqueste, C., Bormpoudakis, D., Maes, J., McCallum, I., Kissling, W.D., Brotons, L., Breeze, T., Moran, A., Lumbierres, M., Friedrich, L., Herrando, S., Lyche Solheim, A., Fernandez, M., Fernández, N., Hirsch, T., Carvalho, L., Vihervaara, P., Junker, J., Georgieva, I., **Kühn, I.**, Van Grunsven, R., Lipsanen, A., Body, G., Goodson, H., Valdez, J., **Bonn, A.**, Pereira, H. (2024):
EuropaBON D2.3 Proposal for an EU Biodiversity Observation Coordination Centre (EBOCC)
ARPHA Preprints
64 pp. [10.3897/arphapreprints.e128042](https://doi.org/10.3897/arphapreprints.e128042)

1245. **Möckel, S., Baaken, M.C., Bartkowski, B., Beckmann, M., Henn, E.V., Strauch, M., Stubenrauch, J.** (2024):
Sustainable cultivated landscapes in Germany: goals and requirements from an ecological, economic and legal perspective
UFZ Discussion Papers 1/2024
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 20
pp. [10.5281/zenodo.13766728](https://doi.org/10.5281/zenodo.13766728)
1246. **Möckel, S., Baaken, M.C., Bartkowski, B., Beckmann, M., Strauch, M., Stubenrauch, J., Volk, M., Witing, F., Wolf, A.** (2024):
Sustainable cultivated landscapes in Germany: comparison of 27 practical measures for more sustainability and their effectiveness
UFZ Discussion Papers 2/2024
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 23
pp. [10.5281/zenodo.13766763](https://doi.org/10.5281/zenodo.13766763)
1247. Moore, J., Kunis, S., Grüning, B., Blank-Burian, M., Mallm, J.-P., Stöter, T., Zuschratter, W., Figge, M.T., Kreshuk, A., Tischer, C., Haase, R., Zobel, T., Bauer, P., Svensson, C.-M., Gerst, R., Hanne, J., Schmidt, C., Becker, M.M., Bocklitz, T., **Bumberger, J.**, Chalopin, C., Chen, J., Czodrowski, P., Dickscheid, T., Fortmann-Grote, C., Huiskens, J., Lohmann, J., Schauss, A., Baumann, M., Beretta, C., Burel, J.-M., Heuveline, V., Kuner, R., Landwehr, M., Leibfried, A., Nitschke, R., Mittal, D., von Suchodoletz, H., Valencia-Schneider, M., Zentis, P., Brilhaus, D., Hartley, M., Hülsmann, B., **Dunker, S.**, Keppler, A., Mathur, A., Meesters, C., Möbius, W., Nahnsen, S., Pfander, C., Rehwald, S., Serrano-Solano, B., Vilardell Scholten, L., Vogl, R., Becks, L., Ferrando-May, E., Weidtkamp-Peters, S. (2024):
NFDI4BIOIMAGE - National Research Data Infrastructure for Microscopy and Bioimage Analysis
Zenodo
115 pp. [10.5281/zenodo.13168693](https://doi.org/10.5281/zenodo.13168693)
1248. Petsani, E., Anderson, S., **Banzhaf, E.**, Barra, M., Beber, J., Pedersen, A.B., Cai, X.-X., Ellmer, H.-P., Fletcher, D., Grandin, G., Guo, Z., Hardiman, R., Iversen, S., Jensen, A., Jones, L., **Knopp, J.**, Læssøe, J., Levin, G., Ma, Y., Sang, Å.O., Petersen, C., Prevot, A.-C., Russel, D., Tedeschini, F., Tuerk, A., Vogel, N., Wheeler, B., Wu, R., Wu, W., Xing, Q., Xu, D.-F., Xu, Y., Yang, Y., Yuan, Q., Zhao, B., Zhao, J., Zhou, S.-Q., Zandersen, M. (2024):
REGREEN NBS Handbook from concept to action for ecosystem restoration & urban resilience. REGREEN Deliverable D7.4. REGREEN - Fostering nature-based solutions for smart, green and healthy urban transitions in Europe and China. Horizon2020 Grant No. 821016
REGREEN - Nature-Based Solutions, 100 pp. [10.5281/zenodo.11065278](https://doi.org/10.5281/zenodo.11065278)

1249. Piniewski, M., **Strauch, M.**, Plunge, S., **Schürz, C.**, Čerkasova, N., Chiaradia, E., **Witing, F.** (2024):
Assessment of NSWRM effectiveness under current and future climate at the catchment scale. Deliverable D4.4 of the EU Horizon 2020 project OPTAIN
Zenodo
318 pp. [10.5281/zenodo.11233622](https://doi.org/10.5281/zenodo.11233622)
1250. **Rutjes, H.** (2024):
Offenheit in partizipativen Prozessen: Ausgewählte Forschungsergebnisse zu Partizipation
BNE Kompetenzzentrum, München, 11 S.
1251. Shammugam, S., Reckien, D., Grafakos, S., Bockarjova, S., Choi, H., Viero, G., Pietropertosa, F., Lionggo, I., Shin, J., Taylor, N.S., Endalew, G.J., Solvang, I., Quezada Avila, D., **Schwarze, R.**, Tollin, N., Viero, N., Oikonomu, V., Heemann, J., Stavarakas, V., Kleanthis, N., Flamos, A., Salvia, M., Pathak, M., Pinter, L., Chelleri, L., Sharifi, L., Mukherji, A., Satorras Grau, M., Sanz, E., Huq, S. (2024):
Identifying good practices in national adaptation plans: A global review
Global Green Growth Institute (GGGI), Seoul, Republic of Korea, 39 pp.
1252. Thonicke, K., Rahner, E., Arneth, A., **Bonn, A.**, Borchard, N., Chaudhary, A., **Darbi, M.**, Dutta, T., Eberle, U., Eisenhauer, N., Farwig, N., Flocco, C.G., Freitag, J., Grobe, P., Grosch, R., Grossart, H.-P., Grosse, A., Grützmacher, K., **Hagemann, N.**, **Hansjürgens, B.**, Hartman Scholz, A., Hassenrück, C., Häuser, C., Hickler, T., Hölker, F., Jacob, U., Jähnig, S.C., Jürgens, K., Kramer-Schadt, S., Kretsch, C., Krug, C., Lakner, S., Lindner, J.P., Loft, L., Mann, C., Matzdorf, B., Mehring, M., Meier, R., Meusemann, K., Müller, D., Nieberg, M., Overmann, J., Peters, R.S., Pörtner, L., Pradhan, P., Prochnow, A., Rduch, V., Reyer, C., Roos, C., Scherber, C., Scheunemann, N., Schroer, S., Schuck, A., Sioen, G.B., Sommer, S., Sommerwerk, N., Tanneberger, F., Tockner, K., van der Voort, H., Veenstra, T., Verburg, P., Voss, M., Warner, B., Wende, W., Wesche, K. (2024):
10 Must Knows aus der Biodiversitätsforschung 2024
Potsdam-Institut für Klimafolgenforschung e.V. (PIK) /
Potsdam Institute for Climate Impact Research e.V., Potsdam,
72 S. [10.5281/zenodo.10794362](https://doi.org/10.5281/zenodo.10794362)

1253. Thonicke, K., Rahner, E., Arneth, A., **Bonn, A.**, Borchard, N., Chaudhary, A., **Darbi, M.**, Dutta, T., Eberle, U., Eisenhauer, N., Farwig, N., Flocco, C.G., Freitag, J., Grobe, P., Grosch, R., Grossart, H.-P., Grosse, A., Grützmacher, K., **Hagemann, N.**, **Hansjürgens, B.**, Hartman Scholz, A., Hassenrück, C., Häuser, C., Hickler, T., Hölker, F., Jacob, U., Jähnig, S.C., Jürgens, K., Kramer-Schadt, S., Kretsch, C., Krug, C., Lakner, S., Lindner, J.P., Loft, L., Mann, C., Matzdorf, B., Mehring, M., Meier, R., Meusemann, K., Müller, D., Nieberg, M., Overmann, J., Peters, R.S., Pörtner, L., Pradhan, P., Prochnow, A., Rduch, V., Reyer, C., Roos, C., Scherber, C., Scheunemann, N., Schroer, S., Schuck, A., Sioen, G.B., Sommer, S., Sommerwerk, N., Tanneberger, F., Tockner, K., van der Voort, H., Veenstra, T., Verburg, P., Voss, M., Warner, B., Wende, W., Wesche, K. (2024):
10 Must Knows from Biodiversity Science 2024
Potsdam-Institut für Klimafolgenforschung e.V. (PIK) /
Potsdam Institute for Climate Impact Research e.V., Potsdam,
71 pp. [10.5281/zenodo.10837769](https://zenodo.org/record/10837769)
1254. **Thrän, D.**, **Borchers, M.**, **Jordan, M.**, Lenz, V., **Markus, T.**, **Matzner, N.**, Oehmichen, K., **Otto, D.**, Radtke, K.S., **Reshef, N.**, **Sadr, M.**, **Siedschlag, D.**, Wollnik, R. (2024):
BECCS – ein nachhaltiger Beitrag zur dauerhaften CO₂-Entnahme in Deutschland?
Diskussionspapier
UFZ Report 2/2024
Helmholtz Centre for Environmental Research - UFZ, Leipzig, 22 S.
[10.57699/edk7-mc18](https://edk7-mc18.10.57699/)
1255. Tockner, K., **Hansjürgens, B.**, Hering, D., Kollmann, J., Kreyling, J., Mitter, H., **Möckel, S.**, Prochnow, A., Renn, O., Tanneberger, F., Tetzlaff, D., Ziel, F., Anton, C., von Hoven, G., Roller, S., Steinicke, H., Wetterich, S. (2024):
Klima - Wasserhaushalt - Biodiversität: für eine integrierende Nutzung von Mooren und Auen. Stellungnahme
Deutsche Akademie der Naturforscher Leopoldina e.V.,
Halle (Saale), 128 S. [10.26164/leopoldina_03_01185](https://leopoldina.10.26164/03_01185)
1256. **Wildner, T.M.**, Lohmann, K.P., **Förster, J.**, Kolb, M. (2024):
Naturbezogene Abhängigkeiten und Chancen verstehen: Die Wesentlichkeitsanalyse als strategisches Instrument. Ein Praxisleitfaden der Umweltstiftung Michael Otto für den ESRS E4 der CSRD
Umweltstiftung Michael Otto, Hamburg, 27 S.

Berichtartikel

1257. **Durka, W., Michalski, S.G., Höfner, J.,** RegioDiv-Konsortium, (2024):
Wissenschaftlicher Ausblick: Das RegioDiv-Projekt, genetische Vielfalt von
Wildpflanzen in Deutschland
Gebietseigenes Wildpflanzensaatgut: Praktische Informationen zur Vermehrung
Augustenberger Beratungshilfe 2024
Landwirtschaftliches Technologiezentrum Augustenberg (LTZ), Karlsruhe, S. 27 - 28

Tagungsbeiträge

1258. Batut, B., Bacon, W., Zierep, P., **Bernt, M.**, Soranzo, N., Gustafsson, J. (2024):
Galaxy CoDex for finding tools, workflows, and training [version 1]
Galaxy Community Conference 2024
F1000Research 13
F1000 Research Ltd, London, 705 (slides) [10.7490/f1000research.1119764.1](https://doi.org/10.7490/f1000research.1119764.1)
1259. Best, B., Thema, J., Kost, C., **Lehmann, P.**, Poganietz, W.-R. (2024):
Krisenprävention mit Suffizienz - Ergänzung zu erneuerbaren Energien und
Energieeffizienz
*Forschung für ein resilientes Energiesystem in Zeiten globaler Krisen. Beiträge zur
FVEE-Jahrestagung 2023, Berlin, 10-11 October 2023*
FVEE-Themen 2023
ForschungsVerbund Erneuerbare Energien (FVEE), Berlin, 32 - 34
1260. **Boedeker, H., Graß, R., Mollenhauer, H., Ohnemus, T.** (2024):
Site-specific determination of plant water status in a steep sloped vineyard using a
microclimatic monitoring system in combination with a water balance model and
UAV-based thermal and multispectral imagery
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-12533 [10.5194/egusphere-egu24-12533](https://doi.org/10.5194/egusphere-egu24-12533)
1261. Brellochs, J., Goy, J., Scherdel, C., Brödnerl, R., Lorenz, T., Weiß, K.-A.,
Kullmann, F., Wern, B., Tavakkol, S., **Borchers, M., Otto, D.**, Berg, H. (2024):
Circular Economy als Basis für resiliente und erneuerbare Rohstoffkreisläufe
*Forschung für ein resilientes Energiesystem in Zeiten globaler Krisen. Beiträge zur
FVEE-Jahrestagung 2023, Berlin, 10-11 October 2023*
FVEE-Themen 2023
ForschungsVerbund Erneuerbare Energien (FVEE), Berlin, 83 - 87
1262. Cassiani, G., **Werban, U., Pohle, M.**, Consoli, S., Longo-Minnolo, G., Vanella, D.,
Peruzzo, L. (2024):
EMI surveys under precision irrigation contexts: an orange orchard-case study and
methodological challenges
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-5746 [10.5194/egusphere-egu24-5746](https://doi.org/10.5194/egusphere-egu24-5746)

1263. **Chandrasekar, A., Boeing, F., Marx, A., Rakovec, O., Müller, S., Sharifi, E., Leal Rojas, J.J., Samaniego, L., Thober, S.** (2024):
Climate adaptation to change in high-flows: Comparison of high-resolution climate model projections
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-9553 [10.5194/egusphere-egu24-9553](https://doi.org/10.5194/egusphere-egu24-9553)
1264. **Durka, W., Michalski, S.G.,** Buchavora, A., **Höfner, J.,** RegioDiv-Konsortium, (2024):
Das RegioDiv-Projekt: Genetische Vielfalt krautiger Pflanzenarten in Deutschland
Tagungsband Symposium Geisenheim 2023 - § 40 des Bundesnaturschutzgesetzes im Spannungsfeld von Biodiversität und Botanischem Artenschutz
Natur & Garten 4
NaturGarten - Verein für naturnahe Garten- und Landschaftsgestaltung e.V., Bonn, 6 - 9
1265. **Fricke, C., Lorenz, M., Maskow, T.,** Thiele-Bruhn, S., Schaumann, G. (2024):
Investigation of thermal reactions and energy content of building blocks of soil organic matter using simultaneous thermal analyses
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-14773 [10.5194/egusphere-egu24-14773](https://doi.org/10.5194/egusphere-egu24-14773)
1266. **Gawel, E.** (2024):
Wasserentnahmeabgaben – Lenkung, Vorteilsausgleich und Finanzierung in Zeiten des Klimawandels
19. Bayerische Wassertage: 13./14. November 2024 – Wasserhaushalt und Wasserstrategie in Zeiten des Klimawandels
Referat 7
KUMAS - Kompetenzzentrum Umwelt e.V, Augsburg, 1 - 8
1267. **Geirinhas, J.L., Russo, A., Libonati, R., Miralles, D.G., Lima, D.C.A., Ribeiro, A.F.S., Trigo, R.M.** (2024):
The influence of temperature–moisture coupling on the occurrence of compound hot and dry events over South America: historical and future perspectives
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-12955 [10.5194/egusphere-egu24-12955](https://doi.org/10.5194/egusphere-egu24-12955)
1268. **Gils, H.C., Wigger, H., Härtel, P., Vögele, S., Niepelt, R., Ottenburger, S.S., Lehneis, R., Manske, D., Doré, L., Mertens, F., Püttner, A.** (2024):
Energiesystem-Resilienz in Szenarien und Transformationspfaden
Forschung für ein resilientes Energiesystem in Zeiten globaler Krisen. Beiträge zur FVEE-Jahrestagung 2023, Berlin, 10-11 October 2023
FVEE-Themen 2023
ForschungsVerbund Erneuerbare Energien (FVEE), Berlin, 35 - 39

1269. **Gupta, S.K., Schulze, F., Gründling, R., Mallast, U.** (2024):
Drone4Tree: A cloud-based geospatial platform for large-scale UAV data processing and tree canopy detection
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-18370 [10.5194/egusphere-egu24-18370](https://doi.org/10.5194/egusphere-egu24-18370)
1270. **Hüesker, F.,** Wehmeier, S., Böttger, T. (2024):
Dezentralisierung der Daseinsvorsorge durch blau-grün-rote Infrastrukturen: Überlegungen aus dem BMBF-Vorhaben Leipziger BlauGrün II
Forschung für ein resilientes Energiesystem in Zeiten globaler Krisen. Beiträge zur FVEE-Jahrestagung 2023, Berlin, 10-11 October 2023
FVEE-Themen 2023
ForschungsVerbund Erneuerbare Energien (FVEE), Berlin, 92 - 95
1271. **Kiskurno, F., Buchwald, J., Kolditz, O., Nagel, T.** (2024):
Hypothesis-testing and assisted-history-matching applied to evaluate uncertainty of model selection and parameter values: a case study of the impact of thermo-osmosis
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-6012 [10.5194/egusphere-egu24-6012](https://doi.org/10.5194/egusphere-egu24-6012)
1272. **Köhler, L., Han, S.** (2024):
The leverage effect of experience: how flood frequency and perceived loss of control influence individual protective motivation
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-18999 [10.5194/egusphere-egu24-18999](https://doi.org/10.5194/egusphere-egu24-18999)
1273. **Lorenz, M.,** Fricke, C., Kaiser, K., Sieberger, E., **Maskow, T.,** Thiele-Bruhn, S. (2024):
Both soil minerals and organic material contribute to the energy content of soil – Insights from an artificial soil experiment and calorimetric analyses
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-13165 [10.5194/egusphere-egu24-13165](https://doi.org/10.5194/egusphere-egu24-13165)
1274. **Maskow, T., Yang, S., Di Lodovico, E., Rupp, A.,** Fricke, C., Miltner, A., **Kästner, M.** (2024):
Expanding understanding: Investigating the information value of calorespirometric ratio in dynamic processes of soil microbial growth using calorimetry
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-6520 [10.5194/egusphere-egu24-6520](https://doi.org/10.5194/egusphere-egu24-6520)

1275. McCullough, C.D., **Schultze, M.**, Vandenberg, J., Castendyk, D. (2024):
Mine waste disposal in pit lakes: a good practice guide
In: Fourie, A.B., Tibbett, M., Boggs, G. (eds.)
Mine Closure 2024: Proceedings of the 17th International Conference on Mine Closure 2
Australian Centre for Geomechanics (ACG), Nedlands,
1063 - 1076 [10.36487/ACG_repo/2415_76](https://doi.org/10.36487/ACG_repo/2415_76)
1276. **Miltner, A., Kästner, M., Maskow, T., Lorenz, M.**, Thiele-Bruhn, S. (2024):
Thermodynamic control of microbial turnover of organic substrates in soils
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-8948 [10.5194/egusphere-egu24-8948](https://doi.org/10.5194/egusphere-egu24-8948)
1277. **Musolff, A., Ledesma, J.L.J., Nguyen, V.T., Ebeling, P.**, Sarrazin, F., **Borchardt, D., Attinger, S., Kumar, R.** (2024):
Riverine nitrogen exports to the Wadden Sea – a travel time-based modelling approach
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-10273 [10.5194/egusphere-egu24-10273](https://doi.org/10.5194/egusphere-egu24-10273)
1278. Neumann, N., Rincon Duarte, J.P., Neises-von Puttkamer, M., Pregger, T., Krüger, D., Meisel, K., Kost, C., **Jordan, M.** (2024):
Nationale Eigenversorgung und Bedarf an internationalem Energiebezug
Forschung für ein resilientes Energiesystem in Zeiten globaler Krisen. Beiträge zur FVEE-Jahrestagung 2023, Berlin, 10-11 October 2023
FVEE-Themen 2023
ForschungsVerbund Erneuerbare Energien (FVEE), Berlin, 9 - 13
1279. **Nguyen, V.T., Kumar, R., Ledesma, J.L.J., Ebeling, P., Fleckenstein, J.H., Musolff, A.** (2024):
Towards understanding the effects of climate and land cover change on dissolved organic carbon export in temperate forest catchments
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-9157 [10.5194/egusphere-egu24-9157](https://doi.org/10.5194/egusphere-egu24-9157)
1280. **Nunes Carvalho, T.M., Zscheischler, J., Kuhlicke, C., de Brito, M.M.** (2024):
A global database of natural hazards impacts reported in the scientific literature
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-19940 [10.5194/egusphere-egu24-19940](https://doi.org/10.5194/egusphere-egu24-19940)

1281. **Ogbu, K.N., Rakovec, O., Samaniego, L.,** Okafor, G.C., Tischbein, B., Meresa, H. (2024):
Evaluating the skill of the mesoscale Hydrologic Model (mHM) for discharge simulation in sparsely-gauged basins in Nigeria
In: Cudennec, C., Grimaldi, S. (eds.)
Hydrological Sciences in the Anthropocene. Vol. 2: Variability and change across space, time, extremes, and interfaces - IAHS Scientific Assembly 2022, Montpellier, 29 May-3 June 2022
Proceedings of IAHS 385
International Association of Hydrological Sciences (IAHS),
Wallingford, Oxfordshire, 211 - 218 [10.5194/piahs-385-211-2024](https://doi.org/10.5194/piahs-385-211-2024)
1282. Páscoa, P., Russo, A., **Ribeiro, A.F.S.,** Gouveia, C. (2024):
Burned area and climate extremes in different land covers in southeastern Australia
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-10145 [10.5194/egusphere-egu24-10145](https://doi.org/10.5194/egusphere-egu24-10145)
1283. Pesce, M., Viglione, A., von Hardenberg, J., **Tarasova, L., Basso, S., Merz, R.,** Parajka, J., Tong, R. (2024):
Regional multi-objective calibration for distributed hydrological modelling: a decision tree based approach
In: Cudennec, C., Grimaldi, S. (eds.)
Hydrological Sciences in the Anthropocene. Vol. 2: Variability and change across space, time, extremes, and interfaces - IAHS Scientific Assembly 2022, Montpellier, 29 May-3 June 2022
Proceedings of IAHS 385
International Association of Hydrological Sciences (IAHS),
Wallingford, Oxfordshire, 65 - 69 [10.5194/piahs-385-65-2024](https://doi.org/10.5194/piahs-385-65-2024)
1284. Plamper, P., **Lechtenfeld, O.J., von Tümpling, W.,** Groß, A. (2024):
A snapshot-based knowledge graph model for temporal link prediction
In: Yamaguchi, A., Egami, S., Kozaki, K., Kawamura, T., Villazón-Terrazas, B., Buranarach, M. (eds.)
Proceedings of the Workshop, Poster and Demonstration Sessions at IJCKG 2023, co-located with 12th International Joint Conference on Knowledge Graphs (IJCKG 2023), Tokyo, Japan, December 8-9, 2023
CEUR Workshop Proceedings 3659
Rheinisch-Westfälische Technische Hochschule (RWTH), Aachen, 64 - 79

1285. Russo, A., Bento, V.A., **Ribeiro, A.**, Lima, D.C.A., Careto, J.A., Soares, P.M.M., Libonati, R., Trigo, R.M., Gouveia, C.M. (2024):
Projected increases in population exposure to droughts in the Iberian Peninsula under 1.5° and 2°C global warming levels
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-18396 [10.5194/egusphere-egu24-18396](https://doi.org/10.5194/egusphere-egu24-18396)
1286. **Scholz, M., de Moraes Bonilha, O.**, Stammel, B., Damm, C., **Henle, K., Kaden, U.S., Korinth, H.**, Schulz-Zunkel, C., Tschikof, M., **Kasperidus, H.D.** (2024):
Land requirements for floodplain development and restoration in Europe
19th conference of the European chapter of the Society of Wetland Scientists. Wetlands across timescales. Book of Abstract. June 24-26, 2024, Goniądz, Poland
Society of Wetland Scientists, Europe Chapter, 131 - 133
1287. **Schultze, M.**, Vandenberg, J., Castendyk, D., Schleußner, H.-P., McCullough, C.D. (2024):
Monitoring for pit lake planning, filling and use: Why? When? What?
In: Fourie, A.B., Tibbett, M., Boggs, G. (eds.)
Mine Closure 2024: Proceedings of the 17th International Conference on Mine Closure 2
Australian Centre for Geomechanics (ACG), Nedlands,
1049 - 1062 [10.36487/ACG_repo/2415_75](https://doi.org/10.36487/ACG_repo/2415_75)
1288. **Shao, H., Selzer, P.**, Behrens, C., **Lehmann, C.**, Kreye, P., Rühaak, W., **Kolditz, O.** (2024):
Validation and benchmarking of simplified reactive transport models of radionuclides for the assessment of nuclear waste repositories
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-6036 [10.5194/egusphere-egu24-6036](https://doi.org/10.5194/egusphere-egu24-6036)
1289. **Shrestha, P.K., Samaniego, L., Kumar, R., Thober, S.** (2024):
Everywhere and locally relevant streamflow simulations in hydrological modeling
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-8839 [10.5194/egusphere-egu24-8839](https://doi.org/10.5194/egusphere-egu24-8839)

1290. **Volk, M.**, Amorsi, N., Bokal, S., Čerkasova, N., Cvejić, R., Farkas, C., Fribourg-Blanc, B., Glavan, M., Honzak, L., Krzeminska, D., Lemann, T., Monaco, F., Nemes, A., Nesheim, I., Piniewski, M., **Schürz, C., Strauch, M., Szabó, B., Witing, F.** (2024):
OPTAIN - Optimal strategies to retain and re-use water and nutrients in small agricultural catchments in Europe
Proceedings of the Biennial Meeting of the International Environmental Modelling and Software Society (iEMSs)
Zenodo
11 - 12 [10.5281/zenodo.14285085](https://doi.org/10.5281/zenodo.14285085)
1291. **Westermann, S., Bumberger, J., Schädler, M., Thober, S., Hildebrandt, A.** (2024):
How grasslands are managed will determine their ability to adapt to increased water scarcity under climate change
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-17711 [10.5194/egusphere-egu24-17711](https://doi.org/10.5194/egusphere-egu24-17711)
1292. **Wittekind, C.I.**, Charlton, M.B., **Strauch, M., Witing, F.,** Klaare, M.J. (2024):
Climate change impacts on river flow in England: a comparison of the UKCP18 and euro-CORDEX regional climate projections
EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022
EGUsphere
Copernicus Publications, EGU22-7748 [10.5194/egusphere-egu22-7748](https://doi.org/10.5194/egusphere-egu22-7748)
1293. **Wurz, J.**, Groß, A., Franze, K., **Lechtenfeld, O.** (2024):
Lambda-Miner: Enhancing reproducible natural organic matter data processing with a semi-automatic web application
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-15782 [10.5194/egusphere-egu24-15782](https://doi.org/10.5194/egusphere-egu24-15782)
1294. **Zhang, C.**, Su, B., Fang, S., **Beckmann, M., Volk, M.** (2024):
Emergy-based accounting method for glacier ecosystem services valuation (ESV): A case of Tibetan Plateau
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-9850 [10.5194/egusphere-egu24-9850](https://doi.org/10.5194/egusphere-egu24-9850)

Preprints

1295. Amador, C.I., Moscovitz, S.Z., Maccario, L., Herschend, J., Kramer, I.-S., Jeckel, H., Cooper, V.S., Drescher, K., **Neu, T.R.**, Burmølle, M., Røder, H.L. (2024): Evolution of genotypic and phenotypic diversity in multispecies biofilms
bioRxiv [10.1101/2023.10.08.561388](https://doi.org/10.1101/2023.10.08.561388)
1296. Arturi, K., Harris, E.J., Gasser, L., **Escher, B.I.**, Bosshard, R., Hollender, J. (2024): MLin vitroTox reloaded for high-throughput hazard-based prioritization of high-resolution mass spectrometry data
Research Square [10.21203/rs.3.rs-5010617/v1](https://doi.org/10.21203/rs.3.rs-5010617/v1)
1297. **Aurich, P.**, Spank, U., **Koschorreck, M.** (2024): Surface CO₂ gradients challenge conventional CO₂ emission quantification in lentic water bodies under calm conditions
EGUsphere [10.5194/egusphere-2024-2550](https://doi.org/10.5194/egusphere-2024-2550)
1298. Batut, B., **Bernt, M.**, Hojat Ansari, M., Kalaš, M., Klemm, P., Libouban, R., Nasr, E., Rioualen, C., Thang, W.C., Zoabi, R., Zierep, P. (2024): How to improve the annotation of Galaxy resources? Outcomes of an online hackathon for improving the annotation of Galaxy resources for microbial data resources
BioHackrXiv Preprints [10.37044/osf.io/s7tru](https://doi.org/10.37044/osf.io/s7tru)
1299. **Boeing, F., Attinger, S.**, Wagener, T., **Rakovec, O.**, **Samaniego, L.**, **Thober, S.**, Schlaack, J., **Müller, S.**, Teichmann, C., **Kumar, R.**, **Marx, A.** (2024): Spatially and seasonally differentiated response of soil moisture droughts to climate change in Germany
ESS Open Archive [10.22541/essoar.173324874.41657715/v1](https://doi.org/10.22541/essoar.173324874.41657715/v1)
1300. Bonfanti, J., Langridge, J., Avadí, A., Casajus, N., Chaudhary, A., Damour, G., Estrada-Carmona, N., Jones, S.K., Makowski, D., Mitchell, M., **Seppelt, R.**, Beillouin, D. (2024): Global review of meta-analyses reveals key data gaps in agricultural impact studies on biodiversity in croplands
bioRxiv [10.1101/2024.04.19.590051](https://doi.org/10.1101/2024.04.19.590051)
1301. Cavalcante, L., Walker, D.W., Kchouk, S., Ribeiro Neto, G., **Nunes Carvalho, T.M., de Brito, M.M.**, Pot, W., Dewulf, A., van Oel, P. (2024): From insufficient rainfall to livelihoods: understanding the cascade of drought impacts and policy implications
EGUsphere [10.5194/egusphere-2024-650](https://doi.org/10.5194/egusphere-2024-650)

1302. Chen, Q., Blowes, S.A., **Harpole, W.S., Ladouceur, E.**, Borer, E.T., MacDougall, A., Martina, J.P., Bakker, J.D., Tognetti, P.M., Seabloom, E.W., Daleo, P., Power, S., **Roscher, C.**, Adler, P., Donohue, I., Wheeler, G., Stevens, C., Veen, C., Risch, A.C., Wardle, G.M., Hautier, Y., Estrada, C., Hersch-Green, E., Niu, Y., Peri, P.L., **Eskelinen, A.**, Gruner, D.S., Venterink, H.O., D'Antonio, C., Cadotte, M.W., Haider, S., Eisenhauer, N., Catford, J., Virtanen, R., Morgan, J.W., Tedder, M., Bagchi, S., Caldeira, M.C., Bugalho, M., Knops, J.M.H., Dickman, C.R., Hagenah, N., Jentsch, A., Macek, P., Osborne, B.B., Laanisto, L., Chase, J.M. (2024):
Local nutrient addition drives plant biodiversity losses but not biotic homogenization in global grasslands
bioRxiv [10.1101/2024.03.27.586835](https://doi.org/10.1101/2024.03.27.586835)
1303. **Chowdhury, S.**, Bowler, D., Boutaud, E., Bleich, O., Bruelheide, H., Buse, J., **Engel, T.**, Gebert, J., **Grescho, V.**, Gürlich, S., Harry, I., Jansen, F., Klenke, R.A., van Klink, R., Winter, M., **Bonn, A.** (2024):
Widespread decline of ground beetles in Germany
EcoEvoRxiv [10.32942/X2XS66](https://doi.org/10.32942/X2XS66)
1304. **Chowdhury, S.**, Hawladar, N., Roy, R.C., Capinha, C., Cassey, P., Correia, R.A., Deme, G.G., Di Marco, M., Di Minin, E., Jarić, I., Ladle, R.J., Lenoir, J., Momeny, M., Rinne, J.J., Roll, U., **Bonn, A.** (2024):
Harnessing social media data to track species range shifts
EcoEvoRxiv [10.32942/X2R63N](https://doi.org/10.32942/X2R63N)
1305. Cole, L., Goodall, T., **Jehmlich, N.**, Griffiths, R.I., Gleixner, G., Gubry-Rangin, C., Malik, A.A. (2024):
Land use effects on soil microbiome composition and traits with consequences for its ecosystem carbon use efficiency
bioRxiv [10.1101/2024.04.05.588235](https://doi.org/10.1101/2024.04.05.588235)
1306. Dietrich, P., **Bumberger, J., Harpole, S., Roscher, C., Dietrich, P.** (2024):
Smartphones as a new tool for biodiversity research
EcoEvoRxiv [10.32942/X2DG7T](https://doi.org/10.32942/X2DG7T)
1307. Dietrich, P., Elias, M., **Dietrich, P., Harpole, S., Roscher, C., Bumberger, J.** (2024):
Advancing plant biomass measurements: integrating smartphone-based 3D scanning techniques for enhanced ecosystem monitoring
EcoEvoRxiv [10.32942/X2T92X](https://doi.org/10.32942/X2T92X)
1308. Dotzauer, M., Schindler, H., Daniel-Gromke, J., **Thrän, D.** (2024):
The future bioenergy plant portfolio in the German power sector: scenarios for different framework conditions
Research Square [10.21203/rs.3.rs-4898688/v1](https://doi.org/10.21203/rs.3.rs-4898688/v1)

1309. **Esmaeili Aliabadi, D., Wulff, N., Lehneis, R., Sadr, M., Reutter, F.J., Jordan, M., Lehmann, P., Thrän, D.** (2024):
Climate change may impair the transition to a fully renewable energy system
SSRN [10.2139/ssrn.4960744](https://ssrn.com/abstract=4960744)

1310. **Forootani, A., Esmaeili Aliabadi, D., Thrän, D.** (2024):
Climate aware deep neural networks (CADNN) for wind power simulation
arXiv [10.48550/arXiv.2412.12160](https://arxiv.org/abs/2412.12160)

1311. **Forootani, A., Esmaeili Aliabadi, D., Thrän, D.** (2024):
Bio-Eng-LMM AI assist chatbot: A comprehensive tool for research and education
arXiv [10.48550/arXiv.2409.07110](https://arxiv.org/abs/2409.07110)

1312. Fu, X., Fan, K., **Zozmann, H., Schüler, L., Calabrese, J.M.** (2024):
Simultaneous identification of changepoints and model parameters in switching dynamical systems
bioRxiv [10.1101/2024.01.30.577909](https://doi.org/10.1101/2024.01.30.577909)

1313. Gelber, S., Blowes, S.A., Chase, J.M., **Huth, A., Schurr, F.M., Tietjen, B., Zeller, J.W., May, F.** (2024):
Geometric and demographic effects explain contrasting fragmentation-biodiversity relationships across scales
bioRxiv [10.1101/2024.02.01.577731](https://doi.org/10.1101/2024.02.01.577731)

1314. Gillerot, L., Landuyt, D., Bourdin, A., Rozario, K., Shaw, T., Steinparzer, M., Stojek, K., Vanroy, T., Cuentas Romero, A.G., Müller, S., Oh, R., Proß, T., Bonal, D., **Bonn, A., Bruelheide, H., Godbold, D., Haluza, D., Jactel, H., Jaroszewicz, B., Kilpi, K., Marselle, M., Ponette, Q., Scherer-Lorenzen, M., De Frenne, P., Muys, B., Verheyen, K.** (2024):
Forest biodiversity and structure modulate human health benefits and risks
Research Square [10.21203/rs.3.rs-4669329/v1](https://doi.org/10.21203/rs.3.rs-4669329/v1)

1315. Hao, L., Wei, Z., Zhao, T., Zhong, Y., **Peng, J.** (2024):
Understanding the differences in various satellite remotely sensed soil moisture downscaling methods
SSRN [10.2139/ssrn.4758452](https://ssrn.com/abstract=4758452)

1316. Hilman, B., **Solly, E.F., Hagedorn, F., Kuhlmann, I., Herrera-Ramirez, D., Trumbore, S.** (2024):
¹⁴C-age of carbon used to grow fine roots reflects tree carbon status
bioRxiv [10.1101/2024.10.15.618388](https://doi.org/10.1101/2024.10.15.618388)

1317. Holle, V., Rönnfeldt, A., Schifferle, K., Cabral, J.S., Craven, D., **Knight, T.**, Seebens, H., Weigelt, P., Zurell, D. (2024):
Uncertainty in blacklisting potential Pacific plant invaders using species distribution models
bioRxiv [10.1101/2024.12.11.627501](https://doi.org/10.1101/2024.12.11.627501)
1318. Hollins, J.P.W., Fleming, C.H., **Calabrese, J.M.**, Harris, L.N., Moore, J.-S., Malley, B.K., Noonan, M.J., Fagan, W.F., Alston, J.M., Hussey, N.E. (2024):
Home range spillover in habitats with impassable boundaries: Causes, biases, and corrections using autocorrelated kernel density estimation
bioRxiv [10.1101/2024.11.20.624379](https://doi.org/10.1101/2024.11.20.624379)
1319. Kaijser, W., Schürings, C., Schneider, A., Prati, S., Musiol, M., Wenskus, F., Brauer, V.S., Feldhaus, L., Wagner, C.S., Bayer, R., Pimentel, I.M., Birk, S., **Brauns, M.**, Dunne, L., Enss, J., Farias, L., Feld, C.K., Gillmann, S.M., Hupalo, K., Osakpolor, S.E., Olberg, S., Schlautmann, C., Schwelm, J., Wells, N.E., Sures, B., Schäfer, R.B., Hering, D. (2024):
Global-scale quantification of responses to anthropogenic stressors in six riverine organism groups
bioRxiv [10.1101/2024.07.06.602319](https://doi.org/10.1101/2024.07.06.602319)
1320. **Khan, T.**, de Koning, K., Endresen, D., Chala, D., Kusch, E. (2024):
TwinEco: A unified framework for dynamic data-driven digital twins in ecology
bioRxiv [10.1101/2024.07.23.604592](https://doi.org/10.1101/2024.07.23.604592)
1321. Kissling, W.D., Breeze, T.D., Lique, C., Lyche Solheim, A., McCallum, I., Maes, J., Hirsch, T., Lumbierres, M., van Grunsven, R.H.A., Beja, P., Smets, B., Capinha, C., Ceia-Hasse, A., Fernández, N., Moreira, F., Junker, J., Leese, F., Hammond, E., Brotons, L., Morán Ordóñez, A., Potts, S.G., Santana, J., Valdez, J.W., **Kühn, I.**, **Milanović, M.**, Schmidt-Kloiber, A., Bormpoudakis, D., Villero, D., Haase, P., Meissner, K., Bruelheide, H., Buchhorn, M., Calderon-Sanou, I., Fernandez, M., Gamero, A., Gobin, A., Guerrero, I., Jandt, U., Klvaňová, A., Marei Viti, M., Moe, S.J., **Bonn, A.**, Pereira, H.M. (2024):
Towards a modern and efficient European biodiversity observation network fit for multiple policies
EcoEvoRxiv [10.32942/X2K34F](https://doi.org/10.32942/X2K34F)
1322. **Leuthold, D.**, **Herold, N.K.**, Nerlich, J., Bartmann, K., Scharkin, I., Hallermann, S.J., **Schweiger, N.**, Fritsche, E., **Tal, T.** (2024):
Multi-behavioral phenotyping in zebrafish identifies a novel disruptor of non-associative learning with environmental and human relevance
bioRxiv [10.1101/2024.09.25.613874](https://doi.org/10.1101/2024.09.25.613874)

1323. Li, Y., Huang, S., Yuan, H., Xu, C.-Y., Li, J., Leng, G., Wang, H., Guo, Y., Guo, W., Li, P., Zheng, X., **Peng, J.** (2024):
Widespread acceleration of drought propagation from the atmosphere to ecosystems in the Northern Hemisphere under climate warming
SSRN [10.2139/ssrn.4873752](https://ssrn.com/abstract=4873752)
1324. **Lipaeva, P.**, Drozdova, P., Vereshchagina, K., Jakob, L., **Schubert, K.**, Bedulina, D., **Luckenbach, T.** (2024):
How to reproduce in the Siberian winter: proteome dynamics reveals timing of reproduction-related processes in a Baikal endemic amphipod
Authorea [10.22541/au.173452888.80789244/v1](https://authorea.com/authors/10.22541/au.173452888.80789244/v1)
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1341. zu Castell, W., Dransch, D., Juckeland, G., Meistring, M., Fritzsche, B., **Gey, R.**, Höpfner, B., Köhler, M., Meeßen, C., Mehrrens, H., Mühlbauer, F., Schindler, S., **Schnicke, T.**, Bertelmann, R. (2024):
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Bearbeitung

Josephine Finckh

Michael Garbe

Heike Reichelt