HELMHOLTZ
Centre for Environmental Research

Publications

Helmholtz Centre for Environmental Research – UFZ

Preface

This list includes all publications of the year 2024 which were authored, co-authored or edited by staff members of the Helmholtz Centre for Environmental Research - UFZ.

As of 1 January 2021, the Helmholtz Association has entered the fourth period of program-oriented funding (PoF IV). In PoF IV, the UFZ contributes to a single Helmholtz research program, "Changing Earth - Sustaining our Future", within the research field Earth and Environment. Thus, all UFZ publications are assigned to this program and its program topics.

The editorial deadline for this publication list was 28 February 2025.

In contrast to external authors, UFZ staff names are highlighted in **bold type** in all publications.

The concluding index lists all UFZ authors in alphabetical order with the sequential numbers of their publications.

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Publications in ISI/Scopus listed journals/series

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

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

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

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

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

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., Hinfray, 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

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

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

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

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

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

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
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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

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

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

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

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

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

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

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

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

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

23. Arenas-Castro, H., Berdejo-Espinola, V., **Chowdhury, S.,** Rodríguez-Contreras, A., James, A.R.M., Nussaïbah, 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., Rodriguez-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., Wadgymar, S.M., Yamamichi, M., Amano, T. (2024):
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Oikos **2024** (1), e10096 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

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The cumulative niche approach: A framework to assess the performance of ecological niche model projections
Ecol. Evol. **14** (2), e11060 10.1002/ece3.11060

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A biobased nano/micro-structured material for microorganisms' immobilization
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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"
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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

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
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31. **Asadi, J., Dietrich, P., Paasche, H.** (2024):
Quantification of the uncertainty of geoscientific maps relying on human sensory engagement
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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

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

34. **Aslam, S., Nowak, K.M.** (2024):
Nitrogen-fertilizer addition to an agricultural soil enhances biogenic non-extractable residue formation from 2-^{13}C,^{15}N-glyphosate
Sci. Total Environ. **918** , art. 170643 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

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A data-centric perspective on the information needed for hydrological uncertainty predictions
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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):
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RNA Biol. **21** (1), 1 - 12 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

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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

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):
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41. Bade, R., **Huchthausen, J., Huber, C.,** Dewapriya, P., Tscharke, 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
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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

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Generating colloidal Fe/C composites via hydrothermal carbonization – A critical study
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In: Ortega-Calvo, J.J., Coulon, F. (eds.)
Soil remediation science and technology
Handbook of Environmental Chemistry Series *130*
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Chemosphere **368** , art. 143736 10.1016/j.chemosphere.2024.143736

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Contrasting fertilization and phenological stages shape microbial-mediated phosphorus cycling in a maize agroecosystem
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53. **Bei, Q., Reitz, T., Schädler, M.,** Hodgskiss, L.H., Peng, J., **Schnabel, B., Buscot, F.,** Eisenhauer, N., Schleper, C., Heintz-Buschart, A. (2024):
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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
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Efficiency aspects of regioselective testosterone hydroxylation with highly active CYP450-based whole-cell biocatalysts
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