



Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung – UFZ

Forschungsbereich Erde und Umwelt

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2019 erschienenen Publikationen des Forschungsbereichs Erde und Umwelt, die von Mitarbeitern der Helmholtz-Zentrum für Umweltforschung GmbH - UFZ verfasst, mitverfasst oder herausgegeben wurden.

Redaktionsschluss für diese Publikationsliste war der 21. Februar 2020.

Im Unterschied zu externen Autoren sind UFZ-Angehörige bei allen Publikationen durch **fette Schrift** hervorgehoben.

Das anschließende alphabetische Register verzeichnet alle UFZ-Autoren mit den jeweiligen laufenden Nummern ihrer Publikationen.

Inhaltsverzeichnis

Artikel in ISI und SCOPUS gelisteten Zeitschriften	3
Artikel in anderen Zeitschriften	103
Journalherausgaben	108
Bücher	109
Buchherausgaben	110
Buchkapitel	112
Berichte	134
Berichtartikel	137
Berichtherausgaben	139
Tagungsbeiträge	140
Blogs	142
UFZ-Autorenregister	143

Artikel in ISI und SCOPUS gelisteten Zeitschriften

1. Abuhani, W.A., Dasgupta-Schubert, N., **Mattusch, J.**, Villaseñor-Cendejas, L.M., Landsberger, S., Alexander, S., Garnica-Romo, M.G. (2019): Elemental analysis of the geothermal microecology of the Los Azufres (Mexico) volcanic complex
J. Radioanal. Nucl. Chem. **322** (3), 1365 - 1371
2. Acosta-Rojas, D.C., **Jiménez-Franco, M.V.**, Zapata-Pérez, V.M., De la Rúa, P., Martínez-López, V. (2019): An integrative approach to discern the seed dispersal role of frugivorous guilds in a Mediterranean semiarid priority habitat
PeerJ **7**, e7609
3. Ahimbisibwe, V., Auch, E., **Groeneveld, J.**, Tumwebaze, S.B., Berger, U. (2019): Drivers of household decision-making on land-use transformation: an example of woodlot establishment in Masindi district, Uganda
Forests **10** (8), art. 619
4. Ainscough, J., de Vries Lentsch, A., Metzger, M., Rounsevell, M., **Schröter, M.**, Delbaere, B., de Groot, R., Staes, J. (2019): Navigating pluralism: Understanding perceptions of the ecosystem services concept
Ecosyst. Serv. **36**, art. 100892
5. Akerboom, S., Backes, C., **Bovet, J.**, Cavallin, E., Cliquet, A., **Köck, W.**, McGillivray, D., Mathews, F., Schoukens, H., Tegner Anker, H. (2019): Wind energy projects and species protection law: a comparative analysis of the application of EU law in five member states
European Energy and Environmental Law Review **28** (4), 144 - 158
6. Al Abadla, Z., **Schlink, U.**, Abdel Wahab, M.M., Robaa, S.M. (2019): Sea breeze climate and human thermal comfort over Gaza, Palestine
EnvironmentAsia **12** (2), 136 - 144
7. Albert, C., Schröter, B., **Haase, D.**, **Brillinger, M.**, Henze, J., Herrmann, S., Gottwald, S., Guerrero, P., Nicolas, C., Matzdorf, B. (2019): Addressing societal challenges through nature-based solutions: How can landscape planning and governance research contribute?
Landsc. Urban Plan. **182**, 12 - 21
8. **Al-Fathi, H.**, Koch, M., Lorenz, W.G., Lechner, U. (2019): Anaerobic degradation of 2,4,5-trichlorophenoxyacetic acid by enrichment cultures from freshwater sediments
Environ. Sci. Pollut. Res. **26** (33), 34459 - 34467

9. **Alhelou, R., Seiwert, B., Reemtsma, T.** (2019):
Hexamethoxymethylmelamine – A precursor of persistent and mobile contaminants in municipal wastewater and the water cycle
Water Res. **165**, art. 114973
10. **Allendorf, F., Berger, U., Goss, K.-U., Ulrich, N.** (2019):
Partition coefficients of four perfluoroalkyl acid alternatives between bovine serum albumin (BSA) and water in comparison to ten classical perfluoroalkyl acids
Environ. Sci.-Proc. Imp. **21** (11), 1852 - 1863
11. **Altenburger, R., Brack, W., Burgess, R.M., Busch, W., Escher, B.I., Focks, A., Hewitt, L.M., Jacobsen, B.N., López de Alda, M., Ait-Aissa, S., Backhaus, T., Ginebreda, A., Hilscherová, K., Hollender, J., Hollert, H., Neale, P.A., Schulze, T., Schymanski, E.L., Teodorovic, I., Tindall, A.J., De Aragão Umbuzeiro, G., Vrana, B., Zonja, B., Krauss, M.** (2019):
Future water quality monitoring: improving the balance between exposure and toxicity assessments of real-world pollutant mixtures
Environ. Sci. Eur. **31**, art. 12
12. Alygizakis, N.A., Oswald, P., Thomaidis, N.S., Schymanski, E.L., Aalizadeh, R., **Schulze, T.**, Oswaldova, M., Slobodnik, J. (2019):
NORMAN digital sample freezing platform: A European virtual platform to exchange liquid chromatography high resolution-mass spectrometry data and screen suspects in “digitally frozen” environmental samples
Trac-Trends Anal. Chem. **115**, 129 - 137
13. Amanatidou, E., Matthews, A.C., **Kuhlicke, U., Neu, T.R.**, McEvoy, J.P., Raymond, B. (2019):
Biofilms facilitate cheating and social exploitation of β -lactam resistance in *Escherichia coli*
npj Biofilms Microbiomes **5**, 36
14. Andersson, E., Langemeyer, J., Borgström, S., McPhearson, T., **Haase, D.**, Kronenberg, J., Barton, D.N., Davis, M., Naumann, S., Röschel, L., Baró, F. (2019):
Enabling green and blue infrastructure to improve contributions to human well-being and equity in urban systems
Bioscience **69** (7), 566 - 574
15. Andronache, I., Marin, M., **Fischer, R.**, Ahammer, H., Radulovic, M., Ciobotaru, A.-M., Jelinek, H.F., Di Ieva, A., Pintilii, R.-D., Drăghici, C.-C., Herman, G.V., Nicula, A.-S., Simion, A.-G., Loghin, I.-V., Diaconu, D.-C., Peptenatu, D. (2019):
Dynamics of forest fragmentation and connectivity using particle and fractal analysis
Sci. Rep. **9**, art. 12228

16. Arceo-Gómez, G., Schroeder, A., Albor, C., Ashman, T.-L., **Knight, T.** (2019): Global geographic patterns of heterospecific pollen receipt help uncover potential ecological and evolutionary impacts across plant communities worldwide
Sci. Rep. **9**, art. 8086
17. **Archidona-Yuste, A., Wiegand, T., Castillo, P., Navas-Cortés, J.A.** (2019): Dataset on the diversity of plant-parasitic nematodes in cultivated olive trees in southern Spain
Data in Brief **27**, art. 104658
18. Armstrong, R.T., McClure, J.E., Robins, V., Liu, Z., Arns, C.H., **Schlüter, S.**, Berg, S. (2019): Porous media characterization using Minkowski functionals: Theories, applications and future directions
Transp. Porous Media **130** (1), 305 - 335
19. **Arslan, M., Devisetty, U.K., Porsch, M., Große, I., Müller, J.A., Michalski, S.** (2019): RNA-Seq analysis of soft rush (*Juncus effusus*): transcriptome sequencing, de novo assembly, annotation, and polymorphism identification
BMC Genomics **20**, art. 489
20. Aslam, S.N., **Huber, C.**, Asimakopoulos, A.G., Steinnes, E., Mikkelsen, Ø. (2019): Trace elements and polychlorinated biphenyls (PCBs) in terrestrial compartments of Svalbard, Norwegian Arctic
Sci. Total Environ. **685**, 1127 - 1138
21. **Ayllón, D., Nicola, G.G., Elvira, B., Almodóvar, A.** (2019): Optimal harvest regulations under conflicting tradeoffs between conservation and recreational fishery objectives
Fish Res. **216**, 47 - 58
22. Ayllón, D., Railsback, S.F., Harvey, B.C., **García Quirós, I.**, Nicola, G.G., Elvira, B., Almodóvar, A. (2019): Mechanistic simulations predict that thermal and hydrological effects of climate change on Mediterranean trout cannot be offset by adaptive behaviour, evolution, and increased food production
Sci. Total Environ. **693**, art. 133648
23. Aylward, L., Bonner, R., Sheridan, C., **Kappelmeyer, U.** (2019): Hydraulic study of a non-steady horizontal sub-surface flow constructed wetland during start-up
Sci. Total Environ. **646**, 880 - 892

24. Bachmann, M.E., Junker, J., Mundry, R., Nielsen, M.R., **Haase, D.**, Cohen, H., Kouassi, J.A.K., Kühl, H.S. (2019):
Disentangling economic, cultural, and nutritional motives to identify entry points for regulating a wildlife commodity chain
Biol. Conserv. **238**, art. 108177
25. Bacht, M., **Tarkka, M.T.**, **Fernández López, I.**, **Bönn, M.**, Brandl, R., **Buscot, F.**, **Feldhahn, L.**, Grams, T.E.E., **Herrmann, S.**, **Schädler, M.** (2019):
Tree response to herbivory is affected by endogenous rhythmic growth and attenuated by cotreatment with a mycorrhizal fungus
Mol. Plant-Microbe Interact. **32** (6), 770 - 781
26. Backhaus, T., **Brack, W.**, van den Brink, P.J., Deutschmann, B., Hollert, H., Posthuma, L., Segner, H., Seiler, T.-B., Teodorovic, I., Focks, A. (2019):
Assessing the ecological impact of chemical pollution on aquatic ecosystems requires the systematic exploration and evaluation of four lines of evidence
Environ. Sci. Eur. **31** (1), art. 98
27. **Backmann, P.**, **Grimm, V.**, Jetschke, G., Lin, Y., Vos, M., Baldwin, I.T., van Dam, N.M. (2019):
Delayed chemical defense: timely expulsion of herbivores can reduce competition with neighboring plants
Am. Nat. **193** (1), 125 - 139
28. Báez, J.C., Santamaría, M.T.G., García, A., González, J.F., Hernández, E., **Ferri-Yáñez, F.** (2019):
Influence of the Arctic Oscillations on the sardine off northwest Africa during the period 1976-1996
Vie Milieu **69** (1), 71 - 77
29. **Baleiro, F.C.F.**, **Kleinsteuber, S.**, Neumann, A., **Sträuber, H.** (2019):
Syngas-aided anaerobic fermentation for medium-chain carboxylate and alcohol production: the case for microbial communities
Appl. Microbiol. Biotechnol. **103** (21-22), 8689 - 8709
30. **Banitz, T.** (2019):
Spatially structured intraspecific trait variation can foster biodiversity in disturbed, heterogeneous environments
Oikos **128** (10), 1478 - 1491
31. Banos, S., **Lentendu, G.**, Kopf, A., **Wubet, T.**, Glöckner, F.O., Reich, M. (2019):
Correction to: A comprehensive fungi-specific 18S rRNA gene sequence primer toolkit suited for diverse research issues and sequencing platforms (vol 18, 190, 2018)
BMC Microbiol. **19**, art. 249

32. Barantal, S., Castagnyrol, B., **Durka, W.**, Iason, G., Morath, S., Koricheva, J. (2019): Contrasting effects of tree species and genetic diversity on the leaf-miner communities associated with silver birch
Oecologia **189** (3), 687 - 697
33. **Baroni, G.**, Drastig, K., Lichtenfeld, A.-U., Jost, L., Claas, P. (2019): Assessment of irrigation scheduling systems in Germany: Survey of the users and comparative study
Irrig. Drain. **68** (3), 520 - 530
34. **Baroni, G.**, Schalge, B., **Rakovec, O.**, Kumar, R., Schüler, L., Samaniego, L., Simmer, C., **Attinger, S.** (2019): A comprehensive distributed hydrological modeling intercomparison to support processes representation and data collection strategies
Water Resour. Res. **55** (2), 990 - 1010
35. Barry, K.E., Mommer, L., van Ruijven, J., Wirth, C., Wright, A.J., Bai, Y., Connolly, J., De Deyn, G.B., de Kroon, H., Isbell, F., Milcu, A., **Roscher, C.**, Scherer-Lorenzen, M., Schmid, B., Weigelt, A. (2019): The future of complementarity: Disentangling causes from consequences
Trends Ecol. Evol. **34** (2), 167 - 180
36. **Bartkowski, B.**, Baum, C.M. (2019): Dealing with rejection: An application of the exit–voice framework to genome-edited food
Front. Bioeng. Biotechnol. **7** , art. 57
37. Bastida, F., García, C., Fierer, N., Eldridge, D.J., Bowker, M.A., Abades, S., Alfaro, F.D., Berhe, A.A., Cutler, N.A., Gallardo, A., García-Velázquez, L., Hart, S.C., Hayes, P.E., Hernández, T., Hseu, Z.-Y., **Jehmlich, N.**, Kirchmair, M., Lambers, H., Neuhauser, S., Peña-Ramírez, V.M., Pérez, C.A., Reed, S.C., Santos, F., Siebe, C., Sullivan, B.W., Trivedi, P., Vera, A., Williams, M.A., Moreno, J.L., Delgado-Baquerizo, M. (2019): Global ecological predictors of the soil priming effect
Nat. Commun. **10** , art. 3481
38. Bastida, F., **Jehmlich, N.**, Martínez-Navarro, J., Bayona, V., García, C., Moreno, J.L. (2019): The effects of struvite and sewage sludge on plant yield and the microbial community of a semiarid Mediterranean soil
Geoderma **337** , 1051 - 1057

39. Bastida, F., López-Mondéjar, R., Baldrian, P., Andrés-Abellán, M., **Jehmlich, N.**, Torres, I.F., García, C., López-Serrano, F.R. (2019):
When drought meets forest management: Effects on the soil microbial community of a Holm oak forest ecosystem
Sci. Total Environ. **662**, 276 - 286
40. **Batbayar, G., Pfeiffer, M., Kappas, M., Karthe, D.** (2019):
Development and application of GIS-based assessment of land-use impacts on water quality: A case study of the Kharaa River Basin
Ambio **48** (10), 1154 - 1168
41. Beckers, F., Awad, Y.M., Beiyuan, J., Abrigata, J., **Mothes, S.**, Tsang, D.C.W., Ok, Y.S., Rinklebe, J. (2019):
Impact of biochar on mobilization, methylation, and ethylation of mercury under dynamic redox conditions in a contaminated floodplain soil
Environ. Int. **127**, 276 - 290
42. Beckers, F., **Mothes, S.**, Abrigata, J., Zhao, J., Gao, Y., Rinklebe, J. (2019):
Mobilization of mercury species under dynamic laboratory redox conditions in a contaminated floodplain soil as affected by biochar and sugar beet factory lime
Sci. Total Environ. **672**, 604 - 617
43. **Beckmann, M.**, Gerstner, K., Akin-Fajjiye, M., Ceaușu, S., Kambach, S., Kinlock, N.L., Phillips, H.R.P., Verhagen, W., Gurevitch, J., **Klotz, S.**, Newbold, T., Verburg, P.H., Winter, M., **Seppelt, R.** (2019):
Conventional land-use intensification reduces species richness and increases production: A global meta-analysis
Glob. Change Biol. **25** (6), 1941 - 1956
44. Bender, I.M.A., Kissling, W.D., Böhning-Gaese, K., Hensen, I., **Kühn, I.**, Nowak, L., Töpfer, T., **Wiegand, T.**, Dehling, D.M., Schleuning, M. (2019):
Projected impacts of climate change on functional diversity of frugivorous birds along a tropical elevational gradient
Sci. Rep. **9**, art. 17708
45. **Benettoni, P., Stryhanyuk, H., Wagner, S., Kollmer, F., Moreno Osorio, J.H., Schmidt, M., Reemtsma, T., Richnow, H.-H.** (2019):
Identification of nanoparticles and their localization in algal biofilm by 3D-imaging secondary ion mass spectrometry
J. Anal. At. Spectrom. **34** (6), 1098 - 1108
46. Benighaus, C., **Bleicher, A.** (2019):
Neither risky technology nor renewable electricity: Contested frames in the development of geothermal energy in Germany
Energy Res. Soc. Sci. **47**, 46 - 55

47. Bennett, J.M., Steets, J.A., Burns, J.H., **Durka, W.**, Vamosi, J.C., Arceo-Gómez, G., Burd, M., Burkle, L.A., Ellis, A.G., Freitas, L., Li, J., Rodger, J.G., Wolowski, M., Xia, J., Ashman, T.-L., **Knight, T.M.** (2019):
Publisher Correction: GloPL, a global data base on pollen limitation of plant reproduction
Sci. Data **6**, art. 2
48. **Benra, F.C.R.**, Nahuelhual, L. (2019):
A trilogy of inequalities: Land ownership, forest cover and ecosystem services distribution
Land Use Pol. **82**, 247 - 257
49. **Benra, F.**, Nahuelhual, L., Gaglio, M., Gissi, E., Aguayo, M., Julian, C., **Bonn, A.** (2019):
Ecosystem services tradeoffs arising from non-native tree plantation expansion in southern Chile
Landscape Urban Plan. **190**, art. 103589
50. Bernardo, H.L., Vitt, P., Goad, R., Masi, S., **Knight, T.M.** (2019):
Using long-term population monitoring data to prioritize conservation action among rare plant species
Nat. Areas J. **39** (2), 169 - 181
51. **Bilke, L.**, Flemisch, B., **Kalbacher, T.**, **Kolditz, O.**, Helmig, R., **Nagel, T.** (2019):
Development of open-source porous media simulators: principles and experiences
Transp. Porous Media **130** (1), 337 - 361
52. **Binder, M.**, Burghardt, D., **Engelmann, C.**, **Tritschler, F.**, Simon, E., Prommer, H., **Dietrich, P.**, Liedl, R., **Händel, F.** (2019):
Suitability of precipitation waters as semi-artificial groundwater tracers
J. Hydrol. **577**, art. 123982
53. Binder, M., **Tritschler, F.**, Burghardt, D., Klotzsch, S., **Dietrich, P.**, Liedl, R., **Händel, F.** (2019):
Application of snowmelt as an active and inexpensive dual isotope groundwater tracer
Hydrogeol. J. **27** (1), 423 - 433
54. **Bittner, L.**, Klüver, N., Henneberger, L., Mühlenbrink, M., Zarfl, C., Escher, B.I. (2019):
Combined ion-trapping and mass balance models to describe the pH-dependent uptake and toxicity of acidic and basic pharmaceuticals in zebrafish embryos (*Danio rerio*)
Environ. Sci. Technol. **53** (13), 7877 - 7886

55. **Bittner, L., Teixidó, E., Keddi, I., Escher, B.I., Klüver, N.** (2019):
pH-Dependent uptake and sublethal effects of antihistamines in zebrafish (*Danio rerio*) embryos
Environ. Toxicol. Chem. **38** (5), 1012 - 1022
56. **Bleicher, A., David, M., Rutjes, H.** (2019):
When environmental legacy becomes a resource: On the making of secondary resources
Geoforum **101**, 18 - 27
57. **Bloch, R., Schütze, S.-E., Müller, E., Röder, S., Lehmann, I., Brack, W., Krauss, M.** (2019):
Non-targeted mercapturic acid screening in urine using LC-MS/MS with matrix effect compensation by postcolumn infusion of internal standard (PCI-IS)
Anal. Bioanal. Chem. **411** (29), 7771 - 7781
58. Blöschl, G., Bierkens, M.F.P., Chambel, A., Cudennec, C., Destouni, G., Fiori, A., Kirchner, J.W., McDonnell, J.J., Savenije, H.H.G., Sivapalan, M., Stumpp, C., Toth, E., Volpi, E., Carr, G., Lupton, C., Salinas, J., Széles, B., Viglione, A., Aksoy, H., Allen, S.T., Amin, A., Andréassian, V., Arheimer, B., Aryal, S.K., Baker, V., Bardsley, E., Barendrecht, M.H., Bartosova, A., Batelaan, O., Berghuijs, W.R., Beven, K., Blume, T., Bogaard, T., Borges de Amorim, P., Böttcher, M.E., Boulet, G., Breinl, K., Brilly, M., Brocca, L., Buytaert, W., Castellarin, A., Castelletti, A., Chen, X., Chen, Y., Chen, Y., Chifflard, P., Claps, P., Clark, M.P., Collins, A.L., Croke, B., Dathe, A., David, P.C., de Barros, F.P.J., **de Rooij, G.H.**, Di Baldassarre, G., et al. (2019):
Twenty-three unsolved problems in hydrology (UPH) – a community perspective
Hydrol. Sci. J.-J. Sci. Hydrol. **64** (10), 1141 - 1158
59. Blöschl, G., Hall, J., Viglione, A., Perdigão, R.A.P., Parajka, J., Merz, B., Lun, D., Arheimer, B., Aronica, G.T., Bilibashi, A., Boháč, M., Bonacci, O., Borga, M., Čanjevac, I., Castellarin, A., Chirico, G.B., Claps, P., Frolova, N., Ganora, D., Gorbachova, L., Gül, A., Hannaford, J., Harrigan, S., Kireeva, M., Kiss, A., Kjeldsen, T.R., Kohnová, S., Koskela, J.J., Ledvinka, O., Macdonald, N., Mavrova-Guirguinova, M., Mediero, L., **Merz, R.**, Molnar, P., Montanari, A., Murphy, C., Osuch, M., Ovcharuk, V., Radevski, I., Salinas, J.L., Sauquet, E., Šraj, M., Szolgay, J., Volpi, E., Wilson, D., Zaimi, K., Živković, N. (2019):
Changing climate both increases and decreases European river floods
Nature **573** (7772), 108 - 111
60. **Boehrer, B., von Tümpeling, W., Mugisha, A., Rogemont, C., Umutoni, A.** (2019):
Reliable reference for the methane concentrations in Lake Kivu at the beginning of industrial exploitation
Hydrol. Earth Syst. Sci. **23** (11), 4707 - 4716

61. Bolinius, D.J., MacLeod, M., Iadaresta, F., Holmbäck, J., **Jahnke, A.** (2019): Sorptive capacities of nonpolymeric plant lipids for hydrophobic chemicals determined by passive dosing
Environ. Sci. Technol. **53** (3), 1278 - 1286
62. Boodoo, K.S., Schelker, J., **Trauth, N.**, Battin, T.J., **Schmidt, C.** (2019): Sources and variability of CO₂ in a pre-alpine stream gravel bar
Hydrol. Process. **33** (17), 2279 - 2299
63. **Boog, J., Kalbacher, T., Nivala, J., Forquet, N., van Afferden, M., Müller, R.A.** (2019): Modeling the relationship of aeration, oxygen transfer and treatment performance in aerated horizontal flow treatment wetlands
Water Res. **157** , 321 - 334
64. **Boog, J., Kalbacher, T., Nivala, J., van Afferden, M., Müller, R.A.** (2019): Modeling dynamics of organic carbon and nitrogen removal during aeration interruption in aerated horizontal flow treatment wetlands
Water Sci. Technol. **80** (3), 597 - 606
65. **Born, J., Michalski, S.G.** (2019): Trait expression and signatures of adaptation in response to nitrogen addition in the common wetland plant *Juncus effusus*
PLOS One **14** (1), e0209886
66. Borsetto, C., Amos, G.C.A., **Nunes da Rocha, U.**, Mitchell, A.L., Finn, R.D., Laidi, R.F., Vallin, C., Pearce, D.A., Newsham, K.K., Wellington, E.M.H. (2019): Microbial community drivers of PK/NRP gene diversity in selected global soils
Microbiome **7** , art. 78
67. **Bovet, J.** (2019): Monatliche Rubrik "Natur und Recht" : Schwerpunkt Windenergie
Nat. Landschaft **94** (5), 215 - 216
68. **Bovet, J.** (2019): Monatliche Rubrik "Natur und Recht" : Schwerpunkt Windenergie
Nat. Landschaft **94** (12), 549 - 551
69. **Brack, W.** (2019): Solutions for present and future emerging pollutants in land and water resources management. Policy briefs summarizing scientific project results for decision makers. Editorial
Environ. Sci. Eur. **31** , art. 74

70. **Brack, W.**, Ait-Aissa, S., **Altenburger, R.**, Cousins, I., Dulio, V., **Escher, B.**, Focks, A., Ginebreda, A., Hering, D., Hilscherová, K., Hollender, J., Hollert, H., Kortenkamp, A., López de Alda, M., Posthuma, L., Schymanski, E., Segner, H., Slobodnik, J. (2019): Let us empower the WFD to prevent risks of chemical pollution in European rivers and lakes
Environ. Sci. Eur. **31**, art. 47
71. **Brack, W.**, Ait-Aissa, S., Backhaus, T., Birk, S., Barceló, D., Burgess, R., Cousins, I., Dulio, V., **Escher, B.I.**, Focks, A., van Gils, J., Ginebreda, A., Hering, D., Hewitt, L.M., Hilscherová, K., Hollender, J., Hollert, H., Köck, M., Kortenkamp, A., López de Alda, M., **Müller, C.**, Posthuma, L., **Schüürmann, G.**, Schymanski, E., Segner, H., Sleeuwaert, F., Slobodnik, J., Teodorovic, I., Umbuzeiro, G., Voulvoulis, N., van Wezel, A., **Altenburger, R.** (2019): Strengthen the European collaborative environmental research to meet European policy goals for achieving a sustainable, non-toxic environment
Environ. Sci. Eur. **31**, art. 63
72. **Brack, W.**, Ait-Aissa, S., Backhaus, T., Dulio, V., **Escher, B.I.**, Faust, M., Hilscherova, K., Hollender, J., Hollert, H., **Müller, C.**, Munthe, J., Posthuma, L., Seiler, T.-B., Slobodnik, J., Teodorovic, I., Tindall, A.J., De Aragão Umbuzeiro, G., Zhang, X., **Altenburger, R.** (2019): Effect-based methods are key. The European Collaborative Project SOLUTIONS recommends integrating effect-based methods for diagnosis and monitoring of water quality
Environ. Sci. Eur. **31**, art. 10
73. **Brack, W.**, Hollender, J., López de Alda, M., **Müller, C.**, **Schulze, T.**, Schymanski, E., Slobodnik, J., **Krauss, M.** (2019): High-resolution mass spectrometry to complement monitoring and track emerging chemicals and pollution trends in European water resources
Environ. Sci. Eur. **31**, art. 62
74. **Brauns, M.**, **Brabender, M.**, **Gehre, M.**, **Rinke, K.**, **Weitere, M.** (2019): Organic matter resources fuelling food webs in a human-modified lowland river: importance of habitat and season
Hydrobiologia **841** (1), 121 - 131
75. Brax, M., **Köhne, M.**, Kroener, E., Schaumann, G.E. (2019): Potential of NMR relaxometry to unravel the properties of mucilage in several pore sizes
Geoderma **340**, 269 - 278
76. Brock, A.L., Rein, A., Polesel, F., **Nowak, K.M.**, **Kästner, M.**, Trapp, S. (2019): Microbial turnover of glyphosate to biomass: utilization as nutrient source and formation of AMPA and biogenic NER in an OECD 308 test
Environ. Sci. Technol. **53** (10), 5838 - 5847

77. Bruelheide, H., Dengler, J., Jiménez-Alfaro, B., Purschke, O., Hennekens, S.M., Chytrý, M., Pillar, V.D., Jansen, F., Kattge, J., Sandel, B., Aubin, I., Biurrun, I., Field, R., Haider, S., Jandt, U., Lenoir, J., Peet, R.K., Peyre, G., Sabatini, F.M., Schmidt, M., Schrodlt, F., Winter, M., Aćić, S., Agrillo, E., Alvarez, M., Ambarlı, D., Angelini, P., Apostolova, I., Khan, M.A.S.A., Arnst, E., Attorre, F., Baraloto, C., **Beckmann, M.**, **Kühn, I.**, **Virtanen, R.**, Berg, C., et al. (2019):
sPlot – a new tool for global vegetation analyses
J. Veg. Sci. **30** (2), 161 - 186
78. Bucharova, A., Bosdorf, O., Hözel, N., Kollmann, J., Prasse, R., **Durka, W.** (2019):
Mix and match: regional admixture provenancing strikes a balance among different seed-sourcing strategies for ecological restoration
Conserv. Genet. **20** (1), 7 - 17
79. **Budhraja, R.**, Ding, C., Walter, P., Wagner, S., Reemtsma, T., Sawers, G., Adrian, L. (2019):
The impact of species, respiration type, growth phase and genetic inventory on absolute metal content of intact bacterial cells
Metallomics **11** (5), 925 - 935
80. Bugmann, H., Seidl, R., Hartig, F., **Bohn, F.**, Brůna, J., Cailleret, M., François, L., Heinke, J., Henrot, A.-J., Hickler, T., Hülsmann, L., **Huth, A.**, Jacquemin, I., Kollas, C., Lasch-Born, P., Lexer, M.J., Merganič, J., Merganičová, K., Mette, T., Miranda, B.R., Nadal-Sala, D., Rammer, W., Rammig, A., Reineking, B., **Roedig, E.**, Sabaté, S., Steinkamp, J., Suckow, F., Vacchiano, G., Wild, J., Xu, C., Reyer, C.P.O. (2019):
Tree mortality submodels drive simulated long-term forest dynamics: assessing 15 models from the stand to global scale
Ecosphere **10** (2), e02616
81. Buhmann, M.T., Abt, D., Nolte, O., **Neu, T.R.**, Strempel, S., Albrich, W.C., Betschart, P., Zumstein, V., Neels, A., Maniura-Weber, K., Ren, Q. (2019):
Encrustations on ureteral stents from patients without urinary tract infection reveal distinct urotypes and a low bacterial load
Microbiome **7** , art. 60
82. Bunke, D., Moritz, S., **Brack, W.**, **López Herráez, D.**, Posthuma, L., Nuss, M. (2019):
Developments in society and implications for emerging pollutants in the aquatic environment
Environ. Sci. Eur. **31** , art. 32

83. **Bunzel, K., Bovet, J., Thrän, D., Eichhorn, M.** (2019):
Hidden outlaws in the forest? A legal and spatial analysis of onshore wind energy in Germany
Energy Res. Soc. Sci. **55**, 14 - 25
84. Burns, J.H., Bennett, J.M., Li, J., Xia, J., Arceo-Gómez, G., Burd, M., Burkle, L.A., **Durka, W.**, Ellis, A.G., Freitas, L., Rodger, J.G., Vamosi, J.C., Wolowski, M., Ashman, T.-L., **Knight, T.**, Steets, J.A. (2019):
Plant traits moderate pollen limitation of introduced and native plants: a phylogenetic meta-analysis of global scale
New Phytol. **223** (4), 2063 - 2075
85. **Butkovskyi, A.**, Cirkel, G., Bozileva, E., Bruning, H., van Wezel, A.P., Rijnaarts, H.H.M. (2019):
Estimation of the water cycle related to shale gas production under high data uncertainties: Dutch perspective
J. Environ. Manage. **231**, 483 - 493
86. **Büttner, L., Rink, D.** (2019):
Urban transition of the heat sector in Leipzig toward a post-fossil city?
Sustainability **11** (21), art. 6065
87. Cáceres, Y., Schrieber, K., Lachmuth, S., **Auge, H.**, Argibay, D., Renison, D., Hensen, I. (2019):
Effects of altitude, land use and microsites on early life performance of a high mountain tree: Insights from an in situ sowing experiment
Divers. Distrib. **25** (10), 1537 - 1550
88. **Calabrese, F.**, Voloshynovska, I., **Musat, F.**, Thullner, M., Schlömann, M., **Richnow, H.H.**, Lambrecht, J., Müller, S., Wick, L.Y., **Musat, N.**, Stryhanyuk, H. (2019):
Quantitation and comparison of phenotypic heterogeneity among single cells of monoclonal microbial populations
Front. Microbiol. **10**, art. 2814
89. Cameron, E.K., Martins, I.S., Lavelle, P., Mathieu, J., Tedersoo, L., Bahram, M., Gottschall, F., Guerra, C.A., Hines, J., Patoine, G., Siebert, J., Winter, M., Cesarz, S., Ferlian, O., Kreft, H., Lovejoy, T.E., Montanarella, L., Orgiazzi, A., Pereira, H.M., Phillips, H.R.P., **Settele, J.**, Wall, D.H., Eisenhauer, N. (2019):
Global mismatches in aboveground and belowground biodiversity
Conserv. Biol. **33** (5), 1187 - 1192
90. Canova, M.A., Lapola, D.M., Pinho, P., Dick, J., Patricio, G.B., **Priess, J.A.** (2019):
Different ecosystem services, same (dis)satisfaction with compensation: A critical comparison between farmers' perception in Scotland and Brazil
Ecosyst. Serv. **35**, 164 - 172

91. Cárdenas, P., Lange, C.B., Vernet, M., Esper, O., Srain, B., Vorrath, M.-E., **Ehrhardt, S.**, Müller, J., Kuhn, G., Arz, H.W., Lembke-Jene, L., Lamy, F. (2019): Biogeochemical proxies and diatoms in surface sediments across the Drake Passage reflect oceanic domains and frontal systems in the region
Prog. Oceanogr. **174**, 72 - 88
92. Carter, N.H., Levin, S.A., **Grimm, V.** (2019): Effects of human-induced prey depletion on large carnivores in protected areas: Lessons from modeling tiger populations in stylized spatial scenarios
Ecol. Evol. **9** (19), 11298 - 11313
93. Cassarini, C., Bhattacharai, S., Rene, E.R., **Vogt, C.**, **Musat, N.**, Esposito, G., Lens, P.N.L. (2019): Enrichment of anaerobic methanotrophs in biotrickling filters using different sulfur compounds as electron acceptor
Environ. Eng. Sci. **36** (4), 431 - 443
94. Cassarini, C., Rene, E.R., Bhattacharai, S., **Vogt, C.**, **Musat, N.**, Lens, P.N.L. (2019): Anaerobic methane oxidation coupled to sulfate reduction in a biotrickling filter: Reactor performance and microbial community analysis
Chemosphere **236**, art. 124290
95. Catford, J.A., Smith, A.L., Wragg, P.D., **Clark, A.T.**, Kosmala, M., Cavender-Bares, J., Reich, P.B., Tilman, D. (2019): Traits linked with species invasiveness and community invasibility vary with time, stage and indicator of invasion in a long-term grassland experiment
Ecol. Lett. **22** (4), 593 - 604
96. Catron, T.R., Gaballah, S., **Tal, T.** (2019): Using zebrafish to investigate interactions between xenobiotics and microbiota
Curr. Pharmacol. Rep. **5**, 468 - 480
97. Chang, Q., Zheng, T., Zheng, X., Zhang, B., Sun, Q., **Walther, M.** (2019): Effect of subsurface dams on saltwater intrusion and fresh groundwater discharge
J. Hydrol. **576**, 508 - 519
98. Chase, J.M., Gooriah, L., May, F., Ryberg, W.A., Schuler, M.S., **Craven, D.**, **Knight, T.M.** (2019): A framework for disentangling ecological mechanisms underlying the island species-area relationship
Front. Biogeogr. **11** (1), e40844
99. Chaudhry, A.A., **Buchwald, J.**, **Kolditz, O.**, **Nagel, T.** (2019): Consolidation around a point heat source (correction and verification)
Int. J. Numer. Anal. Methods Geomech. **43** (18), 2743 - 2751

100. Chen, S.-C., Musat, N., Lechtenfeld, O.J., Paschke, H., Schmidt, M., Said, N., Popp, D., Calabrese, F., Stryhanyuk, H., Jaekel, U., Zhu, Y.-G., Joye, S.B., Richnow, H.-H., Widdel, F., Musat, F. (2019):
Anaerobic oxidation of ethane by archaea from a marine hydrocarbon seep
Nature **568** (7750), 108 - 111
101. Chen, X., de Vries, S., Assmuth, T., Dick, J., Hermans, T., Hertel, O., Jensen, A., Jones, L., Kabisch, S., Lanki, T., Lehmann, I., Maskell, L., Norton, L., Reis, S. (2019):
Research challenges for cultural ecosystem services and public health in (peri-)urban environments
Sci. Total Environ. **651** (Part 2), 2118 - 2129
102. Chowdhury, R., Ghosh, S., Manna, D., Das, S., Dutta, S., Kleinsteuber, S., Sträuber, H., Hassan, M.K., Kuittinen, S., Pappinen, A. (2019):
Hybridization of sugar-carboxylate-syngas platforms for the production of bio-alcohols from lignocellulosic biomass (LCB) – A state-of-the-art review and recommendations
Energy Conv. Manag. **200**, art. 112111
103. Chukwudzie, C., Bourdin, B., Yoshioka, K. (2019):
A variational phase-field model for hydraulic fracturing in porous media
Comput. Meth. Appl. Mech. Eng. **347**, 957 - 982
104. Cipriotti, P.A., Aguiar, M.R., Wiegand, T., Paruelo, J.M. (2019):
Combined effects of grazing management and climate on semi-arid steppes: Hysteresis dynamics prevent recovery of degraded rangelands
J. Appl. Ecol. **56** (9), 2155 - 2165
105. Clagnan, E., Thornton, S.F., Rolfe, S.A., Wells, N.S., Knoeller, K., Murphy, J., Tuohy, P., Daly, K., Healy, M.G., Ezzati, G., von Chamier, J., Fenton, O. (2019):
An integrated assessment of nitrogen source, transformation and fate within an intensive dairy system to inform management change
PLOS One **14** (7), e0219479
106. Clark, A.T., Barry, K.E., Roscher, C., Buchmann, T., Loreau, M., Harpole, W.S. (2019):
How to estimate complementarity and selection effects from an incomplete sample of species
Methods Ecol. Evol. **10** (12), 2141 - 2152
107. Clark, A.T., Hillebrand, H., Harpole, W.S. (2019):
Scale both confounds and informs characterization of multi-species coexistence in empirical systems
Am. Nat. **194** (6), 794 - 806

108. **Clark, A.T.**, Knops, J.M.H., Tilman, D. (2019):
Contingent factors explain average divergence in functional composition over 88 years of old field succession
J. Ecol. **107** (2), 545 - 558
109. Cleland, E.E., Lind, E.M., DeCrappeo, N.M., DeLorenze, E., Wilkins, R.A., Adler, P.B., Bakker, J.D., Brown, C.S., Davies, K.F., Esch, E., Firn, J., Gressard, S., Gruner, D.S., Hagenah, N., **Harpole, W.S.**, Hautier, Y., Hobbie, S.E., Hofmockel, K.S., Kirkman, K., Knops, J., Kopp, C.W., La Pierre, K.J., MacDougall, A., McCulley, R.L., Melbourne, B.A., Moore, J.L., Prober, S.M., Riggs, C., Risch, A.C., Schuetz, M., Stevens, C., Wragg, P.D., Wright, J., Borer, E.T., Seabloom, E.W. (2019): Belowground biomass response to nutrient enrichment depends on light limitation across globally distributed grasslands
Ecosystems **22** (7), 1466 - 1477
110. Cohen, Y., Pasternak, Z., **Johnke, J.**, Abed-Rabbo, A., Kushmaro, A., **Chatzinotas, A.**, Jurkevitch, E. (2019):
Bacteria and micro-eukaryotes are differentially segregated in sympatric wastewater microhabitats
Environ. Microbiol. **21** (5), 1757 - 1770
111. Cornelissen, B., Neumann, P., **Schweiger, O.** (2019):
Global warming promotes biological invasion of a honey bee pest
Glob. Change Biol. **25** (11), 3642 - 3655
112. Cortinovis, C., **Haase, D.**, Zanon, B., Geneletti, D. (2019):
Is urban spatial development on the right track? Comparing strategies and trends in the European Union
Landscape Urban Plan. **181**, 22 - 37
113. Cossarizza, A., Chang, H.-D., Radbruch, A., Acs, A., Adam, D., Adam-Klages, S., **Müller, S.**, Agace, W.W., et al. (2019):
Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition)
Eur. J. Immunol. **49** (10), 1457 - 1973
114. **Craven, D., Knight, T.M.**, Barton, K.E., Bialic-Murphy, L., Chase, J.M. (2019):
Dissecting macroecological and macroevolutionary patterns of forest biodiversity across the Hawaiian archipelago
Proc. Natl. Acad. Sci. U.S.A. **116** (33), 16436 - 16441
115. **Crawford, M.**, Jeltsch, F., May, F., **Grimm, V.**, Schlägel, U.E. (2019):
Intraspecific trait variation increases species diversity in a trait-based grassland model
Oikos **128** (3), 441 - 455

116. Criollo, R., Velasco, V., Nardi, A., de Vries, L.M., Riera, C., Scheiber, L., Jurado, A., Brouyère, S., **Pujades, E.**, Rossetto, R., Vázquez-Suñé, E. (2019): AkvaGIS: An open source tool for water quantity and quality management
Comput. Geosci. **127**, 123 - 132
117. Cuff, A.L., Lou, Y., Zhigang, J., Baguette, M., Blanchet, S., Clobert, J., Jacobus, L.M., Mazzi, D., **Settele, J.** (2019): BMC ecology image competition 2018: the winning images
BMC Ecology **19**, art. 11
118. Currier, R.B., Ulrich, K., Leroux, A.E., Dirdjaja, N., Deambrosi, M., Bonilla, M., Ahmed, Y.L., **Adrian, L.**, Antelmann, H., Jakob, U., Comini, M.A., Krauth-Siegel, R.L. (2019): An essential thioredoxin-type protein of *Trypanosoma brucei* acts as redox-regulated mitochondrial chaperone
PLoS Pathog. **15** (9), e1008065
119. Czechowska, K., Lannigan, J., Wang, L., Arcidiacono, J., Ashhurst, T.M., Barnard, R.M., Bauer, S., Bispo, C., Bonilla, D.L., Brinkman, R.R., Cabanski, M., Chang, H.-D., Chakrabarti, L., Chojnowski, G., Cotleur, B., Degheidy, H., Dela Cruz, G.V., Eck, S., Elliott, J., Errington, R., Filby, A., Gagnon, D., Gardner, R., Green, C., Gregory, M., Groves, C.J., Hall, C., Hammes, F., Hedrick, M., Hoffman, R., Icha, J., Ivaska, J., Jenner, D.C., Jones, D., Kerckhof, F.M., Kukat, C., Lanham, D., Leavesley, S., Lee, M., Lin-Gibson, S., Litwin, V., Liu, Y., Molloy, J., Moore, J.S., **Müller, S.**, Nedbal, J., Niesner, R., Nitta, N., Ohlsson-Wilhelm, B., Paul, N.E., Perfetto, S., Portat, Z., Props, R., Radtke, S., Rayanki, R., Rieger, A., Rogers, S., Rubbens, P., Salomon, R., Schiemann, M., Sharpe, J., Sonder, S.U., Stewart, J.J., Sun, Y., Ulrich, H., Van Isterdael, G., Vitaliti, A., van Vreden, C., Weber, M., Zimmermann, J., Vacca, G., Wallace, P., Tárnok, A. (2019): Cyt-Geist: Current and Future Challenges in Cytometry: Reports of the CYTO 2018 Conference Workshops
Cytom. Part A **95** (6), 598 - 644
120. Dalleau, M., Kramer-Schadt, S., Gangat, Y., Bourjea, J., Lajoie, G., **Grimm, V.** (2019): Modeling the emergence of migratory corridors and foraging hot spots of the green sea turtle
Ecol. Evol. **9** (18), 10317 - 10342
121. Dapporto, L., Cini, A., Vodă, R., Dincă, V., **Wiemers, M.**, Menchetti, M., Magini, G., Talavera, G., Shreeve, T., Bonelli, S., Casacci, L.P., Balletto, E., Scalercio, S., Vila, R. (2019): Integrating three comprehensive data sets shows that mitochondrial DNA variation is linked to species traits and paleogeographic events in European butterflies
Mol. Ecol. Resour. **19** (6), 1623 - 1636

122. **Datta, A., Schweiger, O., Kühn, I.** (2019):
Niche expansion of the invasive plant species *Ageratina adenophora* despite evolutionary constraints
J. Biogeogr. **46** (7), 1306 - 1315
123. **David, C., Schmid, A., Bühler, K.** (2019):
Cellular physiology controls photoautotrophic production of 1,2-propanediol from pools of CO₂ and glycogen
Biotechnol. Bioeng. **116** (4), 882 - 892
124. **David, M., Gross, M.** (2019):
Futurizing politics and the sustainability of real-world experiments: what role for innovation and exnovation in the German energy transition?
Sustain. Sci. **14** (4), 991 - 1000
125. **David, M., Koch, F.** (2019):
“Smart is not smart enough!” Anticipating critical raw material use in smart city concepts: the example of smart grids
Sustainability **11** (16), art. 4422
126. **David, M., Rutjes, H., Bleicher, A.** (2019):
The relational sociology of eco-innovation. La sociología relacional de la eco-innovación
Revista Espanola de Sociologia **28** (3 Suppl. 1), 53 - 70
127. de Graaff, D.R., Felz, S., **Neu, T.R.**, Pronk, M., van Loosdrecht, M.C.M., Lin, Y. (2019):
Sialic acids in the extracellular polymeric substances of seawater-adapted aerobic granular sludge
Water Res. **155** , 343 - 351
128. **Decelle, J., Stryhanyuk, H., Gallet, B., Veronesi, G., Schmidt, M., Balzano, S., Marro, S., Uwizeye, C., Jouneau, P.-H., Lupette, J., Jouhet, J., Maillot-Maréchal, E., Schwab, Y., Schieber, N.L., Tucoulou, R., Richnow, H., Finazzi, G., Musat, N.** (2019):
Algal remodeling in a ubiquitous planktonic photosymbiosis
Curr. Biol. **29** (6), 968 - 978.e4
129. Dechow, R., **Franko, U.**, Kätterer, T., Kolbe, H. (2019):
Evaluation of the RothC model as a prognostic tool for the prediction of SOC trends in response to management practices on arable land
Geoderma **337** , 463 - 478
130. Deicke, M., Mohr, J.F., Roy, S., **Herzsprung, P.**, Bellenger, P., Wichard, T. (2019):
Metallophore profiling of nitrogen-fixing *Frankia* spp. to understand metal management in the rhizosphere of actinorhizal plants
Metalomics **11** , 810 - 821

131. Desrosiers, M., Usseglio-Polatera, P., Archaimbault, V., **Larras, F.**, Méthot, G., Pinel-Alloul, B. (2019):
Assessing anthropogenic pressure in the St. Lawrence River using traits of benthic macroinvertebrates
Sci. Total Environ. **649**, 233 - 246
132. Di Palma, P.R., Guyennon, N., Parmigiani, A., Huber, C., **Heße, F.**, Romano, E. (2019):
Impact of synthetic porous medium geometric properties on solute transport using direct 3D pore-scale simulations
Geofluids **2019**, art. 6810467
133. Dias, O., **Saraiva, J.**, Faria, C., Ramirez, M., Pinto, F., Rocha, I. (2019):
iDS372, a phenotypically reconciled model for the metabolism of *Streptococcus pneumoniae* strain R6
Front. Microbiol. **10**, art. 1283
134. Díaz, S., **Settele, J.**, Brondízio, E.S., Ngo, H.T., Agard, J., Arneth, A., Balvanera, P., Brauman, K.A., Butchart, S.H.M., Chan, K.M.A., Garibaldi, L.A., Ichii, K., Liu, J., Subramanian, S.M., Midgley, G.F., Miloslavich, P., Molnár, Z., Obura, D., Pfaff, A., Polasky, S., Purvis, A., Razzaque, J., Reyers, B., Chowdhury, R.R., Shin, Y.-J., Visseren-Hamakers, I., Willis, K.J., Zayas, C.N. (2019):
Pervasive human-driven decline of life on Earth points to the need for transformative change
Science **366** (6471), eaax3100
135. **Diel, J., Vogel, H.-J., Schlueter, S.** (2019):
Impact of wetting and drying cycles on soil structure dynamics
Geoderma **345**, 63 - 71
136. **Dietze, V., Hagemann, N., Jürges, N., Bartke, S.**, Fürst, C. (2019):
Farmers consideration of soil ecosystem services in agricultural management - A case study from Saxony, Germany
Land Use Pol. **81**, 813 - 824
137. Dirnböck, T., Haase, P., **Mirtl, M.**, Pauw, J., Templer, P.H. (2019):
Contemporary International Long-Term Ecological Research (ILTER)—from biogeosciences to socio-ecology and biodiversity research
Reg. Envir. Chang. **19** (2), 309 - 311
138. Donnenberg, V.S., **Müller, S.**, Houston, J.P., Holden, E. (2019):
Cytometry score: 23 to 4
Cytom. Part A **95** (3), 259 - 260

139. **Dressler, G., Groeneveld, J., Buchmann, C.M., Guo, C., Hase, N., Thober, J., Frank, K., Müller, B.** (2019):
Implications of behavioral change for the resilience of pastoral systems—Lessons from an agent-based model
Ecol. Complex. **40, Part B**, art. 100710
140. **Dressler, G., Hoffmann, F., Breuer, I., Kreuer, D., Mahdi, M., Frank, K., Müller, B.** (2019):
Polarization in (post)nomadic resource use in Eastern Morocco: insights using a multi-agent simulation model
Reg. Environ. Chang. **19** (2), 489 - 500
141. Drozdova, P., Bedulina, D., Madyarova, E., Rivarola-Duarte, L., **Schreiber, S.**, Stadler, P.F., **Luckenbach, T.**, Timofeyev, M. (2019):
Description of strongly heat-inducible *heat shock protein 70* transcripts from Baikal endemic amphipods
Sci. Rep. **9**, art. 8907
142. Drozdova, P., Rivarola-Duarte, L., Bedulina, D., Axenov-Gribanov, D., **Schreiber, S.**, Gurkov, A., Shatilina, Z., Vereshchagina, K., Lubyaga, Y., Madyarova, E., Otto, C., Jühling, F., **Busch, W.**, Jakob, L., Lucassen, M., Sartoris, F.J., **Hackermüller, J.**, Hoffmann, S., Pörtner, H.-O., **Luckenbach, T.**, Timofeyev, M., Stadler, P.F. (2019):
Comparison between transcriptomic responses to short-term stress exposures of a common Holarctic and endemic Lake Baikal amphipods
BMC Genomics **20**, art. 712
143. Druhan, J.L., Winnick, M.J., **Thullner, M.** (2019):
Stable isotope fractionation by transport and transformation
Rev. Mineral. Geochem. **85** (1), 239 - 264
144. **Dunker, S.** (2019):
Hidden secrets behind dots: improved phytoplankton taxonomic resolution using high-throughput imaging flow cytometry
Cytom. Part A **95** (8), 854 - 868
145. **Durka, W., Bosdorf, O., Bucharova, A., Frenzel, M., Hermann, J.-M., Hözel, N., Kollmann, J., Michalski, S.G.** (2019):
Regionales Saatgut von Wiesenpflanzen: genetische Unterschiede, regionale Anpassung und Ökosystem-Effekte. Regional seed of grassland plants: genetic differences, regional adaptation and interaction with insects
Nat. Landschaft **94** (4), 146 - 153

146. **Dusny, C., Lohse, M., Reemtsma, T., Schmid, A., Lechtenfeld, O.J.** (2019): Quantifying a biocatalytic product from a few living microbial cells using microfluidic cultivation coupled to FT-ICR-MS
Anal. Chem. **91** (11), 7012 - 7018
147. **Ebeling, P., Händel, F., Walther, M.** (2019): Potential of mixed hydraulic barriers to remediate seawater intrusion
Sci. Total Environ. **693**, art. 133478
148. Eberhard, M.J.B., **Metze, D.**, Küpper, S.C. (2019): Causes of variability in male vibratory signals and the role of female choice in Mantophasmatodea
Behav. Processes **166**, art. 103907
149. **Eberlein, C., Starke, S., Escobar Doncel, Á., Scarabotti, F., Heipieper, H.J.** (2019): Quantification of outer membrane vesicles: a potential tool to compare response in *Pseudomonas putida* KT2440 to stress caused by alkanols
Appl. Microbiol. Biotechnol. **103** (10), 4193 - 4201
150. Echeverría, C., Ruiz-Pérez, G., Puertes, C., **Samaniego, L.**, Barrett, B., Francés, F. (2019): Assessment of remotely sensed near-surface soil moisture for distributed eco-hydrological model implementation
Water **11** (12), art. 2613
151. Edmonds, B., Le Page, C., Bithell, M., Chattoe-Brown, E., **Grimm, V.**, Meyer, R., Montañola-Sales, C., Ormerod, P., Root, H., Squazzoni, F. (2019): Different modelling purposes
JASSS **22** (3), art. 6
152. **Egli, L., Weise, H., Radchuk, V., Seppelt, R., Grimm, V.** (2019): Exploring resilience with agent-based models: State of the art, knowledge gaps and recommendations for coping with multidimensionality
Ecol. Complex. **40, Part B**, art. 100718
153. **Ehrhardt, S., Kumar, R., Fleckenstein, J.H., Attinger, S., Musolff, A.** (2019): Trajectories of nitrate input and output in three nested catchments along a land use gradient
Hydrol. Earth Syst. Sci. **23** (9), 3503 - 3524
154. Eisenhauer, N., **Bonn, A.**, Guerra, C.A. (2019): Recognizing the quiet extinction of invertebrates
Nat. Commun. **10**, art. 50

155. Elands, B.H.M., Vierikko, K., Andersson, E., Fischer, L.K., Gonçalves, P., **Haase, D.**, Kowarik, I., Luz, A.C., Niemelä, J., Santos-Reis, M. (2019): Biocultural diversity: A novel concept to assess human-nature interrelations, nature conservation and stewardship in cities
Urban For. Urban Green. **40**, 29 - 34
156. El-Athman, F., **Adrian, L.**, Jekel, M., Putschew, A. (2019): Abiotic reductive deiodination of iodinated organic compounds and X-ray contrast media catalyzed by free corrinoids
Chemosphere **221**, 212 - 218
157. El-Athman, F., **Adrian, L.**, Jekel, M., Putschew, A. (2019): Deiodination in the presence of *Dehalococcoides mccartyi* strain CBDB1: comparison of the native enzyme and co-factor vitamin B₁₂
Environ. Sci. Pollut. Res. **26** (31), 32636 - 32644
158. **Ellinger, M., Merbach, I., Werban, U., Ließ, M.** (2019): Error propagation in spectrometric functions of soil organic carbon
Soil **5** (2), 275 - 288
159. Engel, C., **Schattenberg, F.**, Dohnt, K., Schröder, U., **Müller, S.**, Krull, R. (2019): Long-term behavior of defined mixed cultures of *Geobacter sulfurreducens* and *Shewanella oneidensis* in bioelectrochemical systems
Front. Bioeng. Biotechnol. **7**, art. 60
160. Engel, K.M., **Baumann, S., Rolle-Kampczyk, U.**, Schiller, J., **von Bergen, M.**, Grunewald, S. (2019): Metabolomic profiling reveals correlations between spermogram parameters and the metabolites present in human spermatozoa and seminal plasma
PLOS One **14** (2), e0211679
161. **Engelmann, C., Händel, F., Binder, M.**, Yadav, P.K., Dietrich, P., Liedl, R., **Walther, M.** (2019): The fate of DNAPL contaminants in non-consolidated subsurface systems – Discussion on the relevance of effective source zone geometries for plume propagation
J. Hazard. Mater. **375**, 233 - 240
162. **Engelmann, C., Schmidt, L., Werth, C.J., Walther, M.** (2019): Quantification of uncertainties from image processing and analysis in laboratory-scale DNAPL release studies evaluated by reflective optical imaging
Water **11** (11), art. 2274

163. Erdal, D., **Baroni, G.**, Sánchez-León, E., Cirpka, O.A. (2019):
The value of simplified models for spin up of complex models with an application to
subsurface hydrology
Comput. Geosci. **126**, 62 - 72
164. **Escher, B.** (2019):
Bioanalytical tools for the assessment of mixtures of organic micropollutants in water,
sediment, biota and people
Abstr. Paper Am. Chem. Soc. **257**, art. 585
165. **Escher, B.I., Glauch, L., König, M., Mayer, P., Schlichting, R.** (2019):
Baseline toxicity and volatility cutoff in reporter gene assays used for high-throughput
screening
Chem. Res. Toxicol. **32** (8), 1646 - 1655
166. Essl, F., Dullinger, S., Genovesi, P., Hulme, P.E., Jeschke, J.M., Katsanevakis, S., **Kühn, I.**, Lenzner, B., Pauchard, A., Pyšek, P., Rabitsch, W., Richardson, D.M., Seebens, H., van Kleunen, M., van der Putten, W.H., Vilà, M., Bacher, S. (2019):
A conceptual framework for range-expanding species that track human-induced
environmental change
Bioscience **69** (11), 908 - 919
167. Essl, F., Lenzner, B., Courchamp, F., Dullinger, S., Jeschke, J.M., **Kühn, I.**, Leung, B., Moser, D., Roura-Pascual, N., Seebens, H. (2019):
Introducing AlienScenarios: a project to develop scenarios and models of biological
invasions for the 21st century
Neobiota **45**, 1 - 17
168. Exbrayat, J.-F., Bloom, A.A., Carvalhais, N., **Fischer, R., Huth, A.**, MacBean, N., Williams, M. (2019):
Understanding the land carbon cycle with space data: Current status and prospects
Surv. Geophys. **40** (4), 735 - 755
169. Faust, M., Backhaus, T., **Altenburger, R.**, Dulio, V., van Gils, J., Ginebreda, A., Kortenkamp, A., Munthe, J., Posthuma, L., Slobodnik, J., Tollefsen, K.E., van Wezel, A., **Brack, W.** (2019):
Prioritisation of water pollutants: the EU Project SOLUTIONS proposes a
methodological framework for the integration of mixture risk assessments into
prioritisation procedures under the European Water Framework Directive
Environ. Sci. Eur. **31**, art. 66
170. **Feng, Y.**, Fouqueray, T.D., van Kleunen, M. (2019):
Linking Darwin's naturalisation hypothesis and Elton's diversity–invasibility hypothesis
in experimental grassland communities
J. Ecol. **107** (2), 794 - 805

171. **Ferreira, C.C.**, Hossie, T.J., Jenkins, D.A., Wehtje, M., Austin, C.E., Boudreau, M.R., Chan, K., Clement, A., Hrynyk, M., Longhi, J., MacFarlane, S., Majchrzak, Y.N., Otis, J.-A., Peers, M.J.L., Rae, J., Seguin, J.L., Walker, S., Watt, C., Murray, D.L. (2019): The recovery illusion: What is delaying the rescue of imperiled species? *Bioscience* **69** (12), 1028 - 1034
172. Fill, J.M., Pearson, E., **Knight, T.M.**, Crandall, R.M. (2019): An invasive legume increases perennial grass biomass: An indirect pathway for plant community change *PLOS One* **14** (1), e0211295
173. Firn, J., McGree, J.M., Harvey, E., Flores-Moreno, H., Schütz, M., Buckley, Y.M., Borer, E.T., Seabloom, E.W., La Pierre, K.J., MacDougall, A.M., Prober, S.M., Stevens, C.J., Sullivan, L.L., Porter, E., **Ladouceur, E.**, Allen, C., Moromizato, K.H., Morgan, J.W., **Harpole, W.S.**, Hautier, Y., Eisenhauer, N., Wright, J.P., Adler, P.B., Arnillas, C.A., Bakker, J.D., Biederman, L., Broadbent, A.A.D., Brown, C.S., Bugalho, M.N., Caldeira, M.C., Cleland, E.E., Ebeling, A., Fay, P.A., Hagenah, N., Kleinhesselink, A.R., Mitchell, R., Moore, J.L., Nogueira, C., Peri, P.L., **Roscher, C.**, Smith, M.D., Wragg, P.D., Risch, A.C. (2019): Leaf nutrients, not specific leaf area, are consistent indicators of elevated nutrient inputs *Nat. Ecol. Evol.* **3**, 400 - 406
174. **Fischer, C.**, Damm, C., Foeckler, F., Gelhaus, M., Gerstner, L., **Harris, R.M.B.**, Hoffmann, T.G., Iwanowski, J., **Kasperidus, H.D.**, Mehl, D., Podschun, S.A., Rumm, A., Stammel, B., **Scholz, M.** (2019): The “Habitat Provision” index for assessing floodplain biodiversity and restoration potential as an ecosystem service—method and application *Front. Ecol. Evol.* **7**, art. 483
175. **Fischer, C.**, Leimer, S., **Roscher, C.**, Ravenek, J., de Kroon, H., Kreutziger, Y., Baade, J., Beßler, H., Eisenhauer, N., Weigelt, A., Mommer, L., Lange, M., Gleixner, G., Wilcke, W., Schröder, B., Hildebrandt, A. (2019): Plant species richness and functional groups have different effects on soil water content in a decade-long grassland experiment *J. Ecol.* **107** (1), 127 - 141
176. **Fischer, F.C.**, Henneberger, L., Schlichting, R., Escher, B.I. (2019): How to improve the dosing of chemicals in high-throughput *in vitro* mammalian cell assays *Chem. Res. Toxicol.* **32** (8), 1462 - 1468

177. **Fischer, R., Knapp, N., Bohn, F., Shugart, H.H., Huth, A.** (2019):
The relevance of forest structure for biomass and productivity in temperate forests: New perspectives for remote sensing
Surv. Geophys. **40** (4), 709 - 734
178. Fischer, S.M., **Huth, A.** (2019):
An approach to study species persistence in unconstrained random networks
Sci. Rep. **9** (1), art. 14110
179. Flörke, M., **Bärlund, I.**, van Vliet, M.T.H., Bouwman, A.F., Wada, Y. (2019):
Analysing trade-offs between SDGs related to water quality using salinity as a marker
Curr. Opin. Environ. Sustain. **36** , 96 - 104
180. Forbes, V., Schmolke, A., Accolla, C., **Grimm, V.** (2019):
A plea for consistency, transparency and reproducibility in risk assessment effect models
Environ. Toxicol. Chem. **38** (1), 9 - 11
181. **Förster, J., Schmidt, S., Bartkowski, B., Lienhoop, N., Albert, C., Wittmer, H.** (2019):
Incorporating environmental costs of ecosystem service loss in political decision making:
A synthesis of monetary values for Germany
PLOS One **14** (2), e0211419
182. Frago, E., Wang, H.-L., Svensson, G.P., Marques, J.F., Hódar, J.A., Boettner, G.H., Ciornie, C., Dormont, L., Elkinton, J.S., **Franzén, M.**, Khrimian, A., Marianelli, L., Marziali, L., Mas, H., Perez Laorga, E., Pérez-López, J., Roques, A., Simonca, V., Anderbrant, O. (2019):
Common pheromone use among host-associated populations of the browntail moth, *Euproctis chrysorrhoea*, displaying different adult phenologies
Entomol. Gen. **39** (3-4), 295 - 306
183. Fric, Z.F., Maresova, J., Kadlec, T., Tropek, R., Pyrcz, T.W., **Wiemers, M.** (2019):
World travellers: phylogeny and biogeography of the butterfly genus *Leptotes* (Lepidoptera: Lycaenidae)
Syst. Entomol. **44** (3), 652 - 665
184. **Friesen, J.**, Van Stan II, J.T. (2019):
Early European observations of precipitation partitioning by vegetation: A synthesis and evaluation of 19th century findings
Geosciences **9** (10), art. 423
185. Ganatra, A.A., **Becker, J.**, Kandie, F., **Muehlbauer, L.**, McOdimba, F., Torto, B., Lelo, E., **Brack, W.**, Fillinger, U., **Liess, M.** (2019):
Agrochemical pollution increases abundance of *Schistosoma* host snails in western Kenya
Trans. Roy. Soc. Trop. Med. Hyg. **113** (Suppl. 1), S62

186. **Gao, W., Blaser, S.R.G.A., Schlüter, S., Shen, J., Vetterlein, D.** (2019):
Effect of localised phosphorus application on root growth and soil nutrient dynamics
in situ – comparison of maize (*Zea mays*) and faba bean (*Vicia faba*) at the seedling stage
Plant Soil **441** (1-2), 469 - 483
187. **Gao, W., Schlüter, S., Blaser, S.R.G.A., Shen, J., Vetterlein, D.** (2019):
A shape-based method for automatic and rapid segmentation of roots in soil from X-ray
computed tomography images: Routine
Plant Soil **441** (1-2), 643 - 655
188. **Garessus, E.D.G., Mielke, H., Gundert-Remy, U.** (2019):
Exposure of infants to isoniazid via breast milk after maternal drug intake of
recommended doses is clinically insignificant irrespective of metaboliser status. A
physiologically-based pharmacokinetic (PBPK) modelling approach to estimate drug
exposure of infants via breast-feeding
Front. Pharmacol. **10**, art. 5
189. Gärtner, K., **Klähn, S.**, Watanabe, N., Mikkat, S., Scholz, I., Hess, W.R., Hagemann, M.
(2019):
Cytosine N4-methylation via M.Ssp6803II is involved in the regulation of
transcription, fine-tuning of DNA replication and DNA repair in the
cyanobacterium *Synechocystis* sp. PCC 6803
Front. Microbiol. **10**, art. 1233
190. **Gáspár, B., Bosendorf, O., Durka, W.** (2019):
Structure, stability and ecological significance of natural epigenetic variation: a
large-scale survey in *Plantago lanceolata*
New Phytol. **221** (3), 1585 - 1596
191. **Gawel, E., Lehmann, P.** (2019):
Should renewable energy policy be ‘renewable’?
Oxf. Rev. Econ. Policy **35** (2), 218 - 243
192. **Gawel, E., Pannicke, N., Hagemann, N.** (2019):
A path transition towards a bioeconomy—the crucial role of sustainability
Sustainability **11** (11), art. 3005
193. **Gebauer, A., Brito Gómez, V.M., Ließ, M.** (2019):
Optimisation in machine learning: An application to topsoil organic stocks prediction in a
dry forest ecosystem
Geoderma **354** , art. 113846

194. **Geistlinger, H., Ding, Y., Apelt, B., Schlüter, S.**, Küchler, M., Reuter, D., Vorhauer, N., **Vogel, H.-J.** (2019):
Evaporation study based on micromodel experiments: Comparison of theory and experiment
Water Resour. Res. **55** (8), 6653 - 6672
195. Gerling, C., Wätzold, F., Theesfeld, I., **Drechsler, M.**, Nixdorf, B., Isselstein, J., Pirscher, F., Rücker, J., Sturm, A. (2019):
Modeling the co-evolution of natural, economic and governance subsystems in integrated agri-ecological systems: Perspectives and challenges
Ecol. Complex. **40**, art. 100792
196. Geschke, J., Vohland, K., **Bonn, A.**, Dauber, J., Gessner, M.O., **Henle, K.**, Nieschulze, J., Schmeller, D., **Settele, J.**, Sommerwerk, N., Wetzel, F. (2019):
Biodiversitätsmonitoring in Deutschland. Wie Wissenschaft, Politik und Zivilgesellschaft ein nationales Monitoring unterstützen können. Biodiversity monitoring in Germany.
How science, policy and civil society can support a national monitoring system
GAIA **28** (3), 265 - 270
197. **Getzin, S.**, Yizhaq, H. (2019):
Unusual Namibian fairy circle patterns in heterogeneous and atypical environments
J. Arid. Environ. **164**, 85 - 89
198. **Getzin, S.**, Yizhaq, H., Cramer, M.D., Tschinkel, W.R. (2019):
Contrasting global patterns of spatially periodic fairy circles and regular insect nests in drylands
J. Geophys. Res.-Biogeosci. **124** (11), 3327 - 3342
199. **Getzin, S.**, Yizhaq, H., Muñoz-Rojas, M., Wiegand, K., Erickson, T.E. (2019):
A multi-scale study of Australian fairy circles using soil excavations and drone-based image analysis
Ecosphere **10** (2), e02620
200. Geyler, S., **Bedtke, N.**, **Gawel, E.** (2019):
Sustainable stormwater management in existing settlements—municipal strategies and current governance trends in Germany
Sustainability **11** (19), art. 5510
201. **Ghanem, N.**, Stanley, C.E., **Harms, H.**, Chatzinotas, A., **Wick, L.Y.** (2019):
Mycelial effects on phage retention during transport in a microfluidic platform
Environ. Sci. Technol. **53** (20), 11755 - 11763

202. Gilbert, A., Sherwood Lollar, B., **Musat, F.**, Giunta, T., **Chen, S.**, Kajimoto, Y., Yamada, K., Boreham, C.J., Yoshida, N., Ueno, Y. (2019):
Intramolecular isotopic evidence for bacterial oxidation of propane in subsurface natural gas reservoirs
Proc. Natl. Acad. Sci. U.S.A. **116** (14), 6653 - 6658
203. Giling, D.P., Beaumelle, L., Phillips, H.R.P., Cesár, S., Eisenhauer, N., Ferlian, O., Gottschall, F., Guerra, C., Hines, J., **Sendek, A.**, Siebert, J., Thakur, M.P., Barnes, A.D. (2019):
A niche for ecosystem multifunctionality in global change research
Glob. Change Biol. **25** (3), 763 - 774
204. Giling, D.P., Ebeling, A., Eisenhauer, N., Meyer, S.T., **Roscher, C.**, Rzanny, M., Voigt, W., Weisser, W.W., Hines, J. (2019):
Plant diversity alters the representation of motifs in food webs
Nat. Commun. **10** , art. 1226
205. Gobeyn, S., Mouton, A.M., **Cord, A.F.**, **Kaim, A.**, **Volk, M.**, Goethals, P.L.M. (2019):
Evolutionary algorithms for species distribution modelling: A review in the context of machine learning
Ecol. Model. **392** , 179 - 195
206. **Golivets, M.**, Woodall, C.A., Wallin, K.F. (2019):
Functional form and interactions of the drivers of understory non-native plant invasions in northern US forests
J. Appl. Ecol. **56** (12), 2596 - 2608
207. Gosal, A.S., Geijzendorffer, I.R., **Václavík, T.**, Poulin, B., Ziv, G. (2019):
Using social media, machine learning and natural language processing to map multiple recreational beneficiaries
Ecosyst. Serv. **38** , art. 100958
208. **Goss, K.-U.** (2019):
Comment on “Estimating the Bioconcentration Factors of Hydrophobic Organic Compounds from Biotransformation Rates Using Rainbow Trout Hepatocytes” by Trowell et al. in AECT
Arch. Environ. Contam. Toxicol. **76** (1), 153 - 153
209. **Goss, K.-U.** (2019):
The physical chemistry of odors — Consequences for the work with detection dogs
Forensic Sci. Int. **296** , 110 - 114
210. **Goss, K.-U.** (2019):
Comment on “Individual human scent as a forensic identifier using mantrailing”
Forensic Sci. Int. **297** , e19

211. Gottschall, F., Davids, S., Newiger-Dous, T.E., **Auge, H.**, Cesarz, S., Eisenhauer, N. (2019):
Tree species identity determines wood decomposition via microclimatic effects
Ecol. Evol. **9** (21), 12113 - 12127
212. Goulson, D., **Liess, M.**, and 231 other signatories, (2019):
Call to restrict neonicotinoids
Science **360** (6392), 973
213. **Graeber, D.**, Gücker, B., **Wild, R.**, **Wells, N.S.**, **Anlanger, C.**, Kamjunke, N., **Norf, H.**, **Schmidt, C.**, **Brauns, M.** (2019):
Biofilm-specific uptake does not explain differences in whole-stream DOC tracer uptake between a forest and an agricultural stream
Biogeochemistry **144** (1), 85 - 101
214. Graf, M., **Bönn, M.**, **Feldhahn, L.**, **Kurth, F.**, Grams, T.E.E., **Herrmann, S.**, **Tarkka, M.**, **Buscot, F.**, Scheu, S. (2019):
Collembola interact with mycorrhizal fungi in modifying oak morphology, C and N incorporation and transcriptomics
R. Soc. Open Sci. **6** (3), art. 181869
215. Gregory, A.S., **Blagodatskaya, E.** (2019):
Editorial for soil organic matter 2019 special issue
Eur. J. Soil Sci. **70** (4), 713 - 714
216. **Grimm-Seyfarth, A.**, **Mihoub, J.-B.**, **Henle, K.** (2019):
Functional traits determine the different effects of prey, predators, and climatic extremes on desert reptiles
Ecosphere **10** (9), e02865
217. **Grimm-Seyfarth, A.**, **Zarzycka, A.**, **Nitz, T.**, Heynig, L., Weissheimer, N., **Lampa, S.**, **Klenke, R.** (2019):
Performance of detection dogs and visual searches for scat detection and discrimination amongst related species with identical diets
Nat. Conserv.-Bulgaria (37), 81 - 98
218. **Gross, M.** (2019):
The paradox of the unexpected: normal surprises and living with nonknowledge
Environment **61** (3), 20 - 25
219. **Gross, M.**, **Schulte-Römer, N.** (2019):
Book review: Remaking participatory democracy through experimental design
Sci. Technol. Hum. Values **44** (4), 707 - 718

220. **Guo, C., Buchmann, C.M., Schwarz, N.** (2019):
Linking urban sprawl and income segregation – Findings from a stylized agent-based model
Env. Plan. B-Urban Anal. CIty Sci. **46** (3), 469 - 489
221. **Guo, Y., Cichocki, N., Schattenberg, F., Geffers, R., Harms, H., Müller, S.** (2019):
AgNPs change microbial community structures of wastewater
Front. Microbiol. **9**, art. 3211
222. Gurkov, A., Rivarola-Duarte, L., Bedulina, D., **Fernández Casas, I., Michael, H.**, Drozdova, P., Nazarova, A., Govorukhina, E.B., Timofeyev, M., Stadler, P.F., **Luckenbach, T.** (2019):
Indication of ongoing amphipod speciation in Lake Baikal by genetic structures within endemic species
BMC Evol. Biol. **19**, art. 138
223. Guse, B., Pfannerstill, M., Kiesel, J., **Strauch, M., Volk, M.**, Fohrer, N. (2019):
Analysing spatio-temporal process and parameter dynamics in models to characterise contrasting catchments
J. Hydrol. **570**, 863 - 874
224. Gutsch, M., Larondelle, N., **Haase, D.** (2019):
Of bugs and men: How forest pests and their management strategies are perceived by visitors of an urban forest
Urban For. Urban Green. **41**, 248 - 254
225. **Haase, A.** (2019):
The changing role of green spaces and the impacts of greening in the context of urban regrowth. The case of Leipzig, Germany
Sociologia Urbana e Rurale **41** (119), 96 - 116
226. **Haase, A.**, Budnik, M., Großmann, K., Haid, C., Hettke, C., Kullmann, K. (2019):
Soziale Differenzierung und zunehmende soziale Heterogenität in Leipzig im Spiegel von Alltagswahrnehmung und Politik. Social differentiation and increasing social heterogeneity in Leipzig, Germany, in light of daily life perceptions and policy-making
Raumforschung und Raumordnung **77** (5), 525 - 540
227. **Haase, D.**, Jänicke, C., Wellmann, T. (2019):
Front and back yard green analysis with subpixel vegetation fractions from earth observation data in a city
Landsc. Urban Plan. **182**, 44 - 54

228. Hagedorn, G., Loew, T., Seneviratne, S.I., Lucht, W., Beck, W., Beck, M.-L., Hesse, J., Knutti, R., Quaschning, V., Schleimer, J.-H., Mattauch, L., Breyer, C., Hübener, H., Kirchengast, G., Chodura, A., Clausen, J., Creutzig, F., **Darbi, M.**, Daub, C.-H., Ekardt, F., Göpel, M., Hardt, J.N., Hertin, J., Hickler, T., Köhncke, A., Köster, S., Krohmer, J., Kromp-Kolb, H., Leinfelder, R., Mederake, L., **Neuhaus, M.**, Rahmstorf, S., Schmidt, C., Schneider, C., Schneider, G., **Seppelt, R.**, Spindler, U., Springmann, M., Staab, K., Stocker, T.F., Steininger, K., von Hirschhausen, E., Winter, S., Wittau, M., Zens, J. (2019): The concerns of the young protesters are justified: A statement by Scientists for Future concerning the protests for more climate protection
GAIA **28** (2), 79 - 87
229. Hagge, J., Bässler, C., Gruppe, A., **Hoppe, B.**, **Kellner, H.**, Krah, F.-S., Müller, J., Seibold, S., Stengel, E., Thorn, S. (2019): Bark coverage shifts assembly processes of microbial decomposer communities in dead wood
Proc. R. Soc. B-Biol. Sci. **286** (1912), art. 20191744
230. **Halbach, K.**, **Wagner, S.**, **Scholz, S.**, **Luckenbach, T.**, **Reemtsma, T.** (2019): Elemental imaging (LA-ICP-MS) of zebrafish embryos to study the toxicokinetics of the acetylcholinesterase inhibitor naled
Anal. Bioanal. Chem. **411** (3), 617 - 627
231. Halliday, B., **Grimm-Seyfarth, A.** (2019): A new species of *Ophiomegistus* Banks (Acari: Paramegistidae) from an Australian lizard
Syst. Appl. Acarol. **24** (12), 2348 - 2357
232. **Han, S.**, **Kuhlicke, C.** (2019): Reducing hydro-meteorological risk by nature-based solutions: What do we know about people's perceptions?
Water **11** (12), art. 2599
233. **Händel, F.**, Fichtner, T., Graeber, P.-W. (2019): Numerical and laboratory investigations of closely-spaced and joint infiltration of precipitation and treated waste water
Water **11** (11), art. 2262
234. Hansen, C., Drinkwater, K.F., **Jähkel, A.**, Fulton, E.A., Gorton, R., Skern-Mauritzen, M. (2019): Sensitivity of the Norwegian and Barents Sea Atlantis end-to-end ecosystem model to parameter perturbations of key species
PLOS One **14** (2), e0210419

235. **Hansjürgens, B., Schröter-Schlaack, C., Settele, J.** (2019):
Zur ökonomischen Bedeutung der Insekten und ihrer Ökosystemleistungen. On the economic importance of insects and their ecosystem services
Nat. Landschaft **94** (6/7), 230 - 235
236. Harken, B., Chang, C.-F., **Dietrich, P., Kalbacher, T.**, Rubin, Y. (2019):
Hydrogeological modeling and water resources management: Improving the link between data, prediction, and decision making
Water Resour. Res. **55** (12), 10340 - 10357
237. **Haselow, L., Meissner, R., Rupp, H.**, Miegel, K. (2019):
Evaluation of precipitation measurements methods under field conditions during a summer season: A comparison of the standard rain gauge with a weighable lysimeter and a piezoelectric precipitation sensor
J. Hydrol. **575** , 537 - 543
238. Hastie, G.D., **Wu, G.-M.**, Moss, S., Jepp, P., MacAulay, J., Lee, A., Sparling, C.E., Evers, C., Gillespie, D. (2019):
Automated detection and tracking of marine mammals: A novel sonar tool for monitoring effects of marine industry
Aquat. Conserv.-Mar. Freshw. Ecosyst. **29** (S1), 119 - 130
239. **Hauck, J.**, Schleyer, C., **Priess, J.A.**, Veerkamp, C.J., Dunford, R., Alkemade, G., Berry, P., Primmer, E., Kok, M., Young, J., Haines-Young, R., Dick, J., Harrison, P.A., Bela, G., Vadineanu, A., Görg, C. (2019):
Combining policy analyses, exploratory scenarios, and integrated modelling to assess land use policy options
Environ. Sci. Policy **94** , 202 - 210
240. Hauenstein, S., Fattebert, J., Grüebler, M., Naef-Daenzer, B., **Pe'er, G.**, Hartig, F. (2019):
Calibrating an individual-based movement model to predict functional connectivity for little owls
Ecol. Appl. **29** (4), e01873
241. Havens, K., Jolls, C.L., **Knight, T.M.**, Vitt, P. (2019):
We should know whether a tool works (and how dangerous it is) before we use it: Response to Hinz and colleagues
Bioscience **69** (11), 854 - 855
242. Havens, K., Jolls, C.L., **Knight, T.M.**, Vitt, P. (2019):
Risks and rewards: Assessing the effectiveness and safety of classical invasive plant biocontrol by arthropods
Bioscience **69** (4), 247 - 258

243. Hayat, A., Hussain, I., Soja, G., Iqbal, M., **Shahid, N.**, Syed, J.H., Yousaf, S. (2019): Organic and chemical amendments positively modulate the bacterial proliferation for effective rhizoremediation of PCBs-contaminated soil
Ecol. Eng. **138**, 412 - 419
244. He, W., **Kong, X.**, Qin, N., He, Q., Liu, W., Bai, Z., Wang, Y., Xu, F. (2019): Combining species sensitivity distribution (SSD) model and thermodynamic index (exergy) for system-level ecological risk assessment of contaminates in aquatic ecosystems
Environ. Int. 133, Part B, art. 105275
245. He, Z., Unger-Shayesteh, K., Vorogushyn, S., **Weise, S.M.**, Kalashnikova, O., Gafurov, A., Duethmann, D., Barandun, M., Merz, B. (2019): Constraining hydrological model parameters using water isotopic compositions in a glacierized basin, Central Asia
J. Hydrol. **571**, 332 - 348
246. **Hecker, S.** (2019): Book review: National Academies of Sciences, Engineering, and Medicine, *Learning through citizen science: enhancing opportunities by design*
Public Underst. Sci. **28** (8), 1011 - 1012
247. Heger, T., Bernard-Verdier, M., Gessler, A., Greenwood, A.D., Grossart, H.-P., Hilker, M., Keinath, S., Kowarik, I., Kueffer, C., **Marquard, E.**, Müller, J., Niemeier, S., Onandia, G., Petermann, J.S., Rillig, M.C., Rödel, M.-O., Saul, W.-C., Schittko, C., Tockner, K., Joshi, J., Jeschke, J.M. (2019): Towards an integrative, eco-evolutionary understanding of ecological novelty: Studying and communicating interlinked effects of global change
Bioscience **69** (11), 888 - 899
248. **Heink, U., Jax, K.** (2019): Going upstream — How the purpose of a conceptual framework for ecosystem services determines its structure
Ecol. Econ. **156**, 264 - 271
249. **Henneberger, L., Mühlenbrink, M., Escher, B.** (2019): Solid-phase microextraction as a universal tool for quantitative in vitro-to-in vivo extrapolation studies
Toxicol. Lett. **314** (Suppl.), S137
250. **Henneberger, L., Mühlenbrink, M., Fischer, F.C., Escher, B.I.** (2019): C18-coated solid-phase microextraction fibers for the quantification of partitioning of organic acids to proteins, lipids, and cells
Chem. Res. Toxicol. **32** (1), 168 - 178

251. **Henneberger, L., Mühlenbrink, M., König, M., Schlichting, R., Fischer, F.C., Escher, B.I.** (2019):
Quantification of freely dissolved effect concentrations in in vitro cell-based bioassays
Arch. Toxicol. **93** (8), 2295 - 2305
252. Herbst, A., **Patzelt, L., Schoebe, S.**, Schubert, H., **von Tümpeling, W.** (2019):
Bioremediation approach using charophytes—preliminary laboratory and field studies of mine drainage water from the Mansfeld Region, Germany
Environ. Sci. Pollut. Res. **26** (34), 34983 - 34992
253. **Hermans, K.**, Garbe, L. (2019):
Droughts, livelihoods, and human migration in northern Ethiopia
Reg. Environ. Chang. **19** (4), 1101 - 1111
254. **Hermans, K.**, Ide, T. (2019):
Advancing research on climate change, conflict and migration
ERDE **150** (1), 40 - 44
255. Herrando, S., **Titeux, N.**, Brotons, L., Anton, M., Ubach, A., Villero, D., García-Barros, E., Munguira, M.L., Godinho, C., Stefanescu, C. (2019):
Contrasting impacts of precipitation on Mediterranean birds and butterflies
Sci. Rep. **9** , art. 5680
256. Herrero, J., Puigserver, D., **Nijenhuis, I., Kuntze, K.**, Carmona, J.M. (2019):
Combined use of ISCR and biostimulation techniques in incomplete processes of reductive dehalogenation of chlorinated solvents
Sci. Total Environ. **648** , 819 - 829
257. **Hertel, D., Schlink, U.** (2019):
Decomposition of urban temperatures for targeted climate change adaptation
Environ. Modell. Softw. **113** , 20 - 28
258. **Hertel, D., Schlink, U.** (2019):
How to convert urban energy balance into contributions to urban excess temperatures?
MethodsX **6** , 132 - 142
259. Heß, S., **Kneis, D.**, Österlund, T., Li, B., Kristiansson, E., Berendonk, T.U. (2019):
Sewage from airplanes exhibits high abundance and diversity of antibiotic resistance genes
Environ. Sci. Technol. **53** (23), 13898 - 13905
260. **Heße, F.**, Comunian, A., **Attinger, S.** (2019):
What we talk about when we talk about uncertainty. Toward a unified, data-driven framework for uncertainty characterization in hydrogeology
Front. Earth Sci. **7** , art. 118

261. **Heuschkel, I., Hoschek, A., Schmid, A., Bühler, B., Karande, R., Bühler, K.** (2019): Mixed-trophies biofilm cultivation in capillary reactors
MethodsX **6**, 1822 - 1831
262. **Heuschkel, I., Hoschek, A., Schmid, A., Bühler, B., Karande, R., Bühler, K.** (2019): Data on mixed trophies biofilm for continuous cyclohexane oxidation to cyclohexanol using *Synechocystis* sp. PCC 6803
Data in Brief **25**, art. 104059
263. Hickl, O., **Heintz-Buschart, A.**, Trautwein-Schult, A., Hercog, R., Bork, P., Wilmes, P., Becher, D. (2019): Sample preservation and storage significantly impact taxonomic and functional profiles in metaproteomics studies of the human gut microbiome
Microorganisms **7** (9), art. 367
264. Hille, S., **Graeber, D.**, Kronvang, B., Rubæk, G.H., Onnen, N., Molina-Navarro, E., Baattrup-Pedersen, A., Heckrath, G.J., Stutter, M.I. (2019): Management options to reduce phosphorus leaching from vegetated buffer strips
J. Environ. Qual. **48** (2), 322 - 329
265. Hillel, N., Wine, M.L., Laronne, J.B., Licha, T., Be'eri-Shlevin, Y., **Siebert, C.** (2019): Identifying spatiotemporal variations in groundwater-surface water interactions using shallow pore water chemistry in the lower Jordan river
Adv. Water Resour. **131**, art. 103388
266. Hipsey, M.R., Bruce, L.C., Boon, C., Busch, B., Carey, C.C., Hamilton, D.P., Hanson, P.C., Read, J.S., de Sousa, E., **Weber, M.**, Winslow, L.A. (2019): A General Lake Model (GLM 3.0) for linking with high-frequency sensor data from the Global Lake Ecological Observatory Network (GLEON)
Geosci. Model Dev. **12** (1), 473 - 523
267. **Hofmann, P., Chatzinotas, A., Harpole, W.S., Dunker, S.** (2019): Temperature and stoichiometric dependence of phytoplankton traits
Ecology **100** (12), e02875
268. **Hofmann, S.**, Baniya, C.B., Litvinchuk, S.N., Miehe, G., Li, J-T., Schmidt, J. (2019): Phylogeny of spiny frogs *Nanorana* (Anura: Dic平glossidae) supports a Tibetan origin of a Himalayan species group
Ecol. Evol. **9** (24), 14498 - 14511
269. **Hofmann, S.**, Kuhl, H., Bahadur Baniya, C., Stöck, M. (2019): Multi-tissue transcriptomes yield information on high-altitude adaptation and sex-determination in *Scutiger cf. sikimensis*
Genes **10** (11), art. 873

270. Hollender, J., van Bavel, B., Dulio, V., Farmen, E., Furtmann, K., Koschorreck, J., Kunkel, U., **Krauss, M.**, Munthe, J., Schlabach, M., Slobodnik, J., Stroomberg, G., Ternes, T., Thomaidis, N.S., Togola, A., Tornero, V. (2019): High resolution mass spectrometry-based non-target screening can support regulatory environmental monitoring and chemicals management
Environ. Sci. Eur. **31**, art. 42
271. **Hölting, L., Beckmann, M., Volk, M., Cord, A.F.** (2019): Multifunctionality assessments – More than assessing multiple ecosystem functions and services? A quantitative literature review
Ecol. Indic. **103**, 226 - 235
272. **Hölting, L., Jacobs, S., Felipe-Lucia, M.R., Maes, J., Norström, A.V., Plieninger, T., Cord, A.F.** (2019): Measuring ecosystem multifunctionality across scales
Environ. Res. Lett. **14** (12), art. 124083
273. **Holzer, F., Kopinke, F.-D., Roland, U.** (2019): Adsorbent regeneration by non-thermal plasma for elimination of odorous compounds from indoor air
Chem. Eng. Technol. **42** (5), 1144 - 1152
274. Horgan, F.G., Almazan, M.-L.P., **Vu, Q.**, Ramal, A.F., Bernal, C.C., Yasui, H., Fujita, D. (2019): Unanticipated benefits and potential ecological costs associated with pyramiding leafhopper resistance loci in rice
Crop Prot. **115**, 47 - 58
275. **Horst, A., Bonifacie, M., Bardoux, G., Richnow, H.H.** (2019): Isotopic characterization (^2H , ^{13}C , ^{37}Cl , ^{81}Br) of abiotic degradation of methyl bromide and methyl chloride in water and implications for future studies
Environ. Sci. Technol. **53** (15), 8813 - 8822
276. **Hoschek, A., Heuschkel, I., Schmid, A., Bühler, B., Karande, R., Bühler, K.** (2019): Mixed-species biofilms for high-cell-density application of *Synechocystis* sp. PCC 6803 in capillary reactors for continuous cyclohexane oxidation to cyclohexanol
Bioresour. Technol. **282**, 171 - 178
277. Hovorka, S., Vrbka, P., Bermúdez-Salguero, C., **Böhme, A.** (2019): Air–water partitioning of C5 and C6 alkanones: Measurement, critical compilation, correlation, and recommended data
J. Chem. Eng. Data **64** (12), 5765 - 5774

278. Hu, R., Zheng, X., **Zheng, T.**, Xin, J., Wang, H., Sun, Q. (2019):
Effects of carbon availability in a woody carbon source on its nitrate removal behavior in solid-phase denitrification
J. Environ. Manage. **246**, 832 - 839
279. **Huang, J.**, Yin, H., Jomaa, S., **Rode, M.**, Zhou, Q. (2019):
Limited nitrogen retention in an urban river receiving raw sewage and wastewater treatment plant effluent
Environ. Sci.-Proc. Imp. **21** (9), 1477 - 1488
280. Hüffer, T., **Wagner, S.**, Reemtsma, T., Hofmann, T. (2019):
Sorption of organic substances to tire wear materials: Similarities and differences with other types of microplastic
Trac-Trends Anal. Chem. **113**, 392 - 401
281. Hülsmann, S., Sušnik, J., **Rinke, K.**, Langan, S., van Wijk, D., Janssen, A.B.G., Mooij, W.M. (2019):
Integrated modelling and management of water resources: the ecosystem perspective on the nexus approach
Curr. Opin. Environ. Sustain. **40**, 14 - 20
282. Hupfer, M., Nixdorf, B., Paul, L., Röske, I., Petzoldt, T., **Borchardt, D.** (2019):
Dietrich Uhlmann: A passionate scientist and an outstanding academic teacher
Int. Rev. Hydrobiol. **103** (5-6), 85 - 89
283. Hussain, F., Tahseen, R., **Arslan, M.**, Iqbal, S., Afzal, M. (2019):
Removal of hexadecane by hydroponic root mats in partnership with alkane-degrading bacteria: bacterial augmentation enhances system's performance
Int. J. Environ. Sci. Technol. **16** (8), 4611 - 4620
284. Hussain, Z., **Arslan, M.**, Shabir, G., Malik, M.H., Mohsin, M., Iqbal, S., Afzal, M. (2019):
Remediation of textile bleaching effluent by bacterial augmented horizontal flow and vertical flow constructed wetlands: A comparison at pilot scale
Sci. Total Environ. **685**, 370 - 379
285. Huwiler, S.G., Löffler, C., Anselmann, S.E.L., **Stärk, H.-J.**, **von Bergen, M.**, Flechsler, J., Rachel, R., Boll, M. (2019):
One-megadalton metalloenzyme complex in *Geobacter metallireducens* involved in benzene ring reduction beyond the biological redox window
Proc. Natl. Acad. Sci. U.S.A. **116** (6), 2259 - 2264

286. Iannino, A., **Vosshage, A.T.L.**, **Weitere, M.**, **Fink, P.** (2019):
High nutrient availability leads to weaker top-down control of stream periphyton:
Compensatory feeding in *Ancylus fluviatilis*
Freshw. Biol. **64** (1), 37 - 45
287. Ilić, M., Werner, C., **Fink, P.** (2019):
Equal relevance of omega-3 and omega-6 polyunsaturated fatty acids for the
fitness of *Daphnia* spp.
Limnol. Oceanogr. **64** (16), 2512 - 2525
288. Inbar, N., Rosenthal, E., **Magri, F.**, Alraggad, M., Möller, P., Flexer, A.,
Guttmann, J., **Siebert, C.** (2019):
Faulting patterns in the Lower Yarmouk Gorge potentially influence groundwater flow
paths
Hydrol. Earth Syst. Sci. **23** (2), 763 - 771
289. Isbell, F., Tilman, D., Reich, P.B., **Clark, A.T.** (2019):
Deficits of biodiversity and productivity linger a century after agricultural abandonment
Nat. Ecol. Evol. **3** , 1533 - 1538
290. Izadi, Z., Tabrizchi, M., **Borsdorf, H.**, Farrokhpour, H. (2019):
Humidity effect on the drift times of the reactant ions in ion mobility spectrometry
Anal. Chem. **91** (24), 15932 - 15940
291. Janssen, A.B.G., Janse, J.H., Beusen, A.H.W., Chang, M., Harrison, J.A.,
Huttunen, I., **Kong, X.**, Rost, J., Teurlincx, S., Troost, T.A., van Wijk, D., Mooij, W.M.
(2019):
How to model algal blooms in any lake on earth
Curr. Opin. Environ. Sustain. **36** , 1 - 10
292. Jelbert, K., Buss, D., McDonald, J., Townley, S., Franco, M., Stott, I., Jones, O.,
Salguero-Gómez, R., Buckley, Y., **Knight, T.**, Silk, M., Sargent, F., Rolph, S., Wilson,
P., Hodgson, D. (2019):
Demographic amplification is a predictor of invasiveness among plants
Nat. Commun. **10** , 5602
293. **Jeliazkov, A.**, Lorrillière, R., Besnard, A., Garnier, J., Silvestre, M., Chiron, F. (2019):
Cross-scale effects of structural and functional connectivity in pond networks on
amphibian distribution in agricultural landscapes
Freshw. Biol. **64** (5), 997 - 1014

294. **Jeliazkov, A.**, Lorrillière, R., Besnard, A., Garnier, J., Silvestre, M., Chiron, F. (2019): Corrigendum to: Cross-scale effects of structural and functional connectivity in pond networks on amphibian distribution in agricultural landscapes (Freshwater Biology, (2019), 64, 5, (997-1014), 10.1111/fwb.13281)
Freshw. Biol. **64** (11), 2089
295. Jeltsch, F., **Grimm, V.**, Reeg, J., Schlägel, U.E. (2019): Give chance a chance: from coexistence to coviability in biodiversity theory
Ecosphere **10** (5), e02700
296. Jemec Kokalj, A., **Kuehnel, D.**, Puntar, B., Žgajnar Gotvajn, A., Kalčíkova, G. (2019): An exploratory ecotoxicity study of primary microplastics versus aged in natural waters and wastewaters
Environ. Pollut. **254** , art. 112980
297. Jensen, T.J., **Auliya, M.**, Burgess, N.D., Aust, P.W., Pertoldi, C., Strand, J. (2019): Exploring the international trade in African snakes not listed on CITES: highlighting the role of the internet and social media
Biodivers. Conserv. **28** (1), 1 - 19
298. Jetz, W., McGeoch, M.A., Guralnick, R., Ferrier, S., Beck, J., Costello, M.J., Fernandez, M., Geller, G.N., Keil, P., Merow, C., Meyer, C., Muller-Karger, F.E., Pereira, H.M., Regan, E.C., **Schmeller, D.S.**, Turak, E. (2019): Essential biodiversity variables for mapping and monitoring species populations
Nat. Ecol. Evol. **3** , 539 - 551
299. **Jiang, S.Y.**, Zhang, Q., Werner, A.D., Wellen, C., **Jomaa, S.**, Zhu, Q.D., **Büttner, O.**, Meon, G., **Rode, M.** (2019): Effects of stream nitrate data frequency on watershed model performance and prediction uncertainty
J. Hydrol. **569** , 22 - 36
300. **Jing, M.**, Heße, F., Kumar, R., Kolditz, O., Kalbacher, T., Attinger, S. (2019): Influence of input and parameter uncertainty on the prediction of catchment-scale groundwater travel time distributions
Hydrol. Earth Syst. Sci. **23** (1), 171 - 190
301. **John, F.**, Toth, R., **Frank, K.**, Groeneveld, J., Müller, B. (2019): Ecological vulnerability through insurance? Potential unintended consequences of livestock drought insurance
Ecol. Econ. **157** , 357 - 368

302. Juhlke, T.R., **Meier, C.**, van Geldern, R., Vanselow, K., Wernicke, J., Baidulloeva, J., Barth, J.A.C., **Weise, S.M.** (2019):
Assessing moisture sources of precipitation in the Western Pamir Mountains (Tajikistan, Central Asia) using deuterium excess
Tellus Ser. B-Chem. Phys. Meteorol. **71** (1), 1 - 16
303. Jung, M.-Y., Gwak, J.-H., **Rohe, L.**, Giesemann, A., Kim, J.-G., Well, R., Madsen, E.L., Herbold, C.W., Wagner, M., Rhee, S.-K. (2019):
Indications for enzymatic denitrification to N₂O at low pH in an ammonia-oxidizing archaeon
ISME J. **13** , 2633 - 2638
304. Junker, T., Coors, A., **Schüürmann, G.** (2019):
Compartment-specific screening tools for persistence: Potential role and application in the regulatory context
Integr. Environ. Assess. Manag. **15** (3), 470 - 481
305. Jurado, A., Bofill-Mas, S., Vázquez-Suñé, E., **Pujades, E.**, Girones, R., Rusiñol, M. (2019):
Occurrence of pathogens in the river–groundwater interface in a losing river stretch (Besòs River Delta, Spain)
Sci. Total Environ. **696** , art. 134028
306. Jurado, A., **Walther, M.**, Díaz-Cruz, S. (2019):
Occurrence, fate and environmental risk assessment of the organic microcontaminants included in the Watch Lists set by EU Decisions 2015/495 and 2018/840 in the groundwater of Spain
Sci. Total Environ. **663** , 285 - 296
307. **Kabisch, N.**, Alonso, L., Dadvand, P., van den Bosch, M. (2019):
Urban natural environments and motor development in early life
Environ. Res. **179, Part A** , art. 108774
308. **Kabisch, N.**, Haase, D., Haase, A. (2019):
Reurbanisation: A long-term process or a short-term stage?
Popul. Space Place. **25** (5), art. e2266
309. **Kabisch, N.**, Selsam, P., Kirsten, T., **Lausch, A.**, **Bumberger, J.** (2019):
A multi-sensor and multi-temporal remote sensing approach to detect land cover change dynamics in heterogeneous urban landscapes
Ecol. Indic. **99** , 273 - 282

310. **Kabisch, S.** (2019):
Urban transformations to pursue sustainability through resource efficiency, quality of life and resilience: a conceptual approach
Geographia Technica **14** (Special Issue 2019), 98 - 107
311. **Kabisch, S.**, Finnveden, G., Kratochvil, P., Sendi, R., Smagacz-Poziemska, M., Matos, R., Bylund, J. (2019):
New urban transitions towards sustainability: Addressing SDG challenges (research and implementation tasks and topics from the perspective of the Scientific Advisory Board (SAB) of the Joint Programming Initiative (JPI) Urban Europe)
Sustainability **11** (8), art. 2242
312. **Kallies, R.**, Hölzer, M., **Brizola Toscan, R.**, Nunes da Rocha, U., Anders, J., Marz, M., **Chatzinotas, A.** (2019):
Evaluation of sequencing library preparation protocols for viral metagenomic analysis from pristine aquifer groundwaters
Viruses **11** (6), art. 484
313. **Kallies, R.**, Kiesel, B., Schmidt, M., Ghanem, N., Zopfi, J., **Hackermüller, J.**, Harms, H., Wick, L.Y., **Chatzinotas, A.** (2019):
Complete genome sequence of *Pseudoalteromonas* virus vB_PspP-H6/1 that infects *Pseudoalteromonas* sp. strain H6
Mar. Genom. **47** , art. 100667
314. **Kambach, S.**, Allan, E., Bilodeau-Gauthier, S., Coomes, D.A., Haase, J., Jucker, T., Kunstler, G., Müller, S., Nock, C., Paquette, A., van der Plas, F., Ratcliffe, S., Roger, F., Ruiz-Benito, P., Scherer-Lorenzen, M., **Auge, H.**, Bouriaud, O., Castagnayrol, B., Dahlgren, J., Gamfeldt, L., Jactel, H., Kändler, G., Koricheva, J., Lehtonen, A., Muys, B., Ponette, Q., Setiawan, N., Van de Peer, T., Verheyen, K., Zavala, M.A., Bruelheide, H. (2019):
How do trees respond to species mixing in experimental compared to observational studies?
Ecol. Evol. **9** (19), 11254 - 11265
315. **Kamjunke, N.**, Hertkorn, N., Harir, M., Schmitt-Kopplin, P., Griebler, C., **Brauns, M.**, von Tümpeling, W., Weitere, M., **Herzsprung, P.** (2019):
Molecular change of dissolved organic matter and patterns of bacterial activity in a stream along a land-use gradient
Water Res. **164** , art. 114919
316. Kamleitner, S., Lachner, J., Steier, P., **Weise, S.M.**, Kraushaar, S. (2019):
¹²⁹I concentration in a high-mountain environment
Nucl. Instrum. Methods Phys. Res. B **456** , 193 - 202

317. **Kämpf, C.**, Specht, M., Scholz, A., Poppel, S-H., Doose, G., Reiche, K., **Schor, J.**, **Hackermüller, J.** (2019):
uap: reproducible and robust HTS data analysis
BMC Bioinformatics **20**, art. 664
318. **Kanagaraj, R.**, Araújo, M.B., Barman, R., Davidar, P., De, R., Digal, D.K., Gopi, G.V., Johnsingh, A.J.T., Kakati, K., Kramer-Schadt, S., Lamichhane, B.R., Lyngdoh, S., Madhusudan, M.D., Ul Islam Najar, M., Parida, J., Pradhan, N.M.B., Puyravaud, J.-P., Raghunath, R., Rahim, P.P.A., Muthamizh Selvan, K., Subedi, N., Trabucco, A., Udayraj, S., **Wiegand, T.**, Williams, A.C., Goyal, S.P. (2019):
Predicting range shifts of Asian elephants under global change
Divers. Distrib. **25** (5), 822 - 838
319. Kannath, S., Adamczyk, P., **Wu, L.**, **Richnow, H.H.**, Dybala-Defratyka, A. (2019):
Can alkaline hydrolysis of γ -HCH serve as a model reaction to study its aerobic enzymatic dehydrochlorination by LinA?
Int. J. Mol. Sci. **20** (23), art. 5955
320. Kärcher, O., **Frank, K.** (2019):
Scale effects on the performance of niche-based models of freshwater fish distributions
Ecol. Model. **405**, 33 - 42
321. Kärcher, O., Hering, D., **Frank, K.**, Markovic, D. (2019):
Freshwater species distributions along thermal gradients
Ecol. Evol. **9** (1), 111 - 124
322. Karimi, E., Keller-Costa, T., Slaby, B.M., Cox, C.J., **Nunes da Rocha, U.**, Hentschel, U., Costa, R. (2019):
Genomic blueprints of sponge-prokaryote symbiosis are shared by low abundant and cultivatable *Alphaproteobacteria*
Sci. Rep. **9**, art. 1999
323. Karner, K., **Cord, A.F.**, **Hagemann, N.**, Hernandez-Mora, N., Holzkämper, A., Jeangros, B., **Lienhoop, N.**, Nitsch, H., Rivas, D., Schmid, E., Schulp, C.J.E., **Strauch, M.**, van der Zanden, E.H., **Volk, M.**, Willaarts, B., Zarrineh, N., Schönhart, M. (2019):
Developing stakeholder-driven scenarios on land sharing and land sparing – Insights from five European case studies
J. Environ. Manage. **241**, 488 - 500

324. **Karrasch, B.**, Horovitz, O., **Norf, H.**, Hillel, N., Hadas, O., Beeri-Shlevin, Y., Laronne, J.B. (2019):
Quantitative ecotoxicological impacts of sewage treatment plant effluents on plankton productivity and assimilative capacity of rivers
Environ. Sci. Pollut. Res. **26** (23), 24034 - 24049
325. **Kaus, A.**, **Michalski, S.**, Hänfling, B., **Karthe, D.**, **Borchardt, D.**, **Durka, W.** (2019):
Fish conservation in the land of steppe and sky: Evolutionarily significant units of threatened salmonid species in Mongolia mirror major riverbasins
Ecol. Evol. **9** (6), 3416 - 3433
326. Kayatz, B., **Baroni, G.**, Hillier, J., Lüdtke, S., Heathcote, R., Malin, D., van Tonder, C., Kuster, B., Freese, D., Hüttl, R., Wattenbach, M. (2019):
Cool farm tool water: A global on-line tool to assess water use in crop production
J. Clean Prod. **207** , 1163 - 1179
327. Kayler, Z.E., Premke, K., Gessler, A., Gessner, M.O., Griebler, C., Hilt, S., Klemedtsson, L., Kuzyakov, Y., Reichstein, M., Siemens, J., Totsche, K.-U., Tranvik, L., Wagner, A., **Weitere, M.**, Grossart, H.-P. (2019):
Integrating aquatic and terrestrial perspectives to improve insights into organic matter cycling at the landscape scale
Front. Earth Sci. **7** , art. 127
328. Kelleher, C., Ward, A., Knapp, J.L.A., Blaen, P.J., **Kurz, M.J.**, Drummond, J.D., Zarnetske, J.P., Hannah, D.M., Mendoza-Lera, C., Schmadel, N.M., Datry, T., Lewandowski, J., Milner, A.M., Krause, S. (2019):
Exploring tracer information and model framework trade-offs to improve estimation of stream transient storage processes
Water Resour. Res. **55** (4), 3481 - 3501
329. Kelling, S., Johnston, A., **Bonn, A.**, Fink, D., Ruiz-Gutierrez, V., Bonney, R., Fernandez, M., Hochachka, W.M., Julliard, R., **Kraemer, R.**, Guralnick, R. (2019):
Using semistructured surveys to improve citizen science data for monitoring biodiversity
Bioscience **69** (3), 170 - 179
330. **Kelly, R.**, Fleming, A., Pecl, G.T., **Richter, A.**, **Bonn, A.** (2019):
Social license through citizen science: a tool for marine conservation
Ecol. Soc. **24** (1), art. 16

331. Kenter, J.O., Raymond, C.M., van Riper, C.J., Azzopardi, E., Brear, M.R., Calcagni, F., Christie, J., Christie, M., Fordham, A., Gould, R.K., Ives, C.D., Hejnowicz, A.P., Gunton, R., Horcea-Milcu, A.-I., Kendal, D., Kronenberg, J., **Massenberg, J.R.**, O'Connor, S., Ravenscroft, N., Rawluk, A., Raymond, I.J., Rodríguez-Morales, J., Thankappan, S. (2019):
Loving the mess: navigating diversity and conflict in social values for sustainability
Sustain. Sci. **14** (5), 1439 - 1461
332. Kirsch, F., **Klähn, S.**, Hagemann, M. (2019):
Salt-regulated accumulation of the compatible solutes sucrose and glucosylglycerol in cyanobacteria and its biotechnological potential
Front. Microbiol. **10**, art. 2139
333. Kirschke, S., Franke, C., Newig, J., **Borchardt, D.** (2019):
Clusters of water governance problems and their effects on policy delivery
Policy Soc. **38** (2), 255 - 277
334. Kirschke, T., Spott, O., **Vetterlein, D.** (2019):
Impact of urease and nitrification inhibitor on NH_4^+ and NH_3^- dynamic in soil after urea spring application under field conditions evaluated by soil extraction and soil solution sampling
J. Plant Nutr. Soil Sci. **182** (3), 441 - 450
335. **Klähn, S.** (2019):
Same same but different: Wie Cyanobakterien ein zentrales Enzym regulieren
Biospektrum **25** (6), 610 - 613
336. **Klähn, S.** (2019):
Mikroorganismus in den Schlagzeilen: Ein natürlicher Glyphosat-Ersatz aus Cyanobakterien?
Biospektrum **25** (5), 536
337. **Klauer, B., Renno, J., Reese, M., Sigel, K., Schiller, J.** (2019):
Praxistest zweier Verfahren zur Unverhältnismäßigkeitsprüfung. Applicability of two approaches to test disproportionality of costs
WasserWirtschaft **109** (4), 27 - 32
338. Klein, J.A., Tucker, C.M., Nolin, A.W., Hopping, K.A., Reid, R.S., Steger, C., Grêt-Regamey, A., Lavorel, S., **Müller, B.**, Yeh, E.T., Boone, R.B., Bougeron, P., Bustic, V., Castellanos, E., Chen, X., Dong, S.K., Greenwood, G., Keiler, M., Marchant, R., Seidl, R., Spies, T., Thorn, J., Yager, K. (2019):
Catalyzing transformations to sustainability in the world's mountains
Earth Future **7** (5), 547 - 557

339. Klein, J.A., Tucker, C.M., Steger, C.E., Nolin, A., Reid, R., Hopping, K.A., Yeh, E.T., Pradhan, M.S., Taber, A., Molden, D., Ghate, R., Choudhury, D., Alcántara-Ayala, I., Lavorel, S., Müller, B., Grêt-Regamey, A., Boone, R.B., Bourgeron, P., Castellanos, E., Chen, X., Dong, S., Keiler, M., Seidl, R., Thorn, J., Yager, K. (2019): An integrated community and ecosystem-based approach to disaster risk reduction in mountain systems
Environ. Sci. Policy **94**, 143 - 152
340. Klöckner, P., Reemtsma, T., Eisentraut, P., Braun, U., Ruhl, A.S., Wagner, S. (2019): Tire and road wear particles in road environment – Quantification and assessment of particle dynamics by Zn determination after density separation
Chemosphere **222**, 714 - 721
341. Klosterhalfen, A., Graf, A., Brüggemann, N., Drüe, C., Esser, O., González-Dugo, M.P., Heinemann, G., Jacobs, C.M.J., Mauder, M., Moene, A.F., Ney, P., Pütz, T., Rebmann, C., Ramos Rodríguez, M., Scanlon, T.M., Schmidt, M., Steinbrecher, R., Thomas, C.K., Valler, V., Zeeman, M.J., Vereecken, H. (2019): Source partitioning of H₂O and CO₂ fluxes based on high-frequency eddy covariance data: a comparison between study sites
Biogeosciences **16** (6), 1111 - 1132
342. Klusáček, P., Martinát, S., Krejčí, T., Bartke, S. (2019): Re-development of a former military training area—The case of Brdy told from a local actors' perspective
Land Use Pol. **82**, 147 - 157
343. Klüver, N., Bittermann, K., Escher, B.I. (2019): QSAR for baseline toxicity and classification of specific modes of action of ionizable organic chemicals in the zebrafish embryo toxicity test
Aquat. Toxicol. **207**, 110 - 119
344. Knapp, S., Schmauck, S., Zehnsdorf, A. (2019): Biodiversity impact of green roofs and constructed wetlands as progressive eco-technologies in urban areas
Sustainability **11** (20), art. 5846
345. Kneis, D., Berendonk, T.U., Heß, S. (2019): High prevalence of colistin resistance genes in German municipal wastewater
Sci. Total Environ. **694**, art. 133454
346. Köck, W. (2019): Wolf conservation and removal of wolves in Germany - Status quo and prospects
JEEPL **16** (3), 262 - 278

347. Koebsch, F., Winkel, M., Liebner, S., Liu, B., Westphal, J., Schmiedinger, I., Spitz, A., **Gehre, M.**, Jurasinski, G., Köhler, S., Unger, V., Koch, M., Sachs, T., Böttcher, M.E. (2019):
Sulfate deprivation triggers high methane production in a disturbed and rewetted coastal peatland
Biogeosciences **16** (9), 1937 - 1953
348. Koellner, T., **Bonn, A.**, Arnhold, S., Bagstad, K.J., Fridman, D., Guerra, C.A., Kastner, T., Kissinger, M., **Kleemann, J.**, **Kuhlicke, C.**, Liu, J., López-Hoffman, L., Marques, A., Martín-López, B., Schulp, C.J.E., Wolff, S., **Schröter, M.** (2019):
Guidance for assessing interregional ecosystem service flows
Ecol. Indic. **105**, 92 - 106
349. Koestel, J., **Schlüter, S.** (2019):
Quantification of the structure evolution in a garden soil over the course of two years
Geoderma **338**, 597 - 609
350. **Köhler, I.H.**, Huber, S.C., Bernacchi, C.J., Baxter, I.R. (2019):
Increased temperatures may safeguard the nutritional quality of crops under future elevated CO₂ concentrations
Plant J. **97** (5), 872 - 886
351. Kolbe, T., De Dreuz, J.-R., Abbott, B.W., Aquilina, L., Babey, T., Green, C.T., **Fleckenstein, J.H.**, Labasque, T., Laverman, A.M., Marçais, J., Peiffer, S., Thomas, Z., Pinay, G. (2019):
Stratification of reactivity determines nitrate removal in groundwater
Proc. Natl. Acad. Sci. U.S.A. **116** (7), 2494 - 2499
352. **Kolditz, O.**, Rink, K., Nixdorf, E., Fischer, T., Bilke, L., Naumov, D., Liao, Z., Yue, T. (2019):
Environmental information systems: Paving the path for digitally facilitated water management (Water 4.0)
Engineering **5** (5), 828 - 832
353. Kolora, S.R.R., Weigert, A., Saffari, A., Kehr, S., Costa, M.B.W., Spröer, C., Indrischek, H., Chintalapati, M., Lohse, K., Doose, G., Overmann, J., Bunk, B., Bleidorn, C., **Grimm-Seyfarth, A.**, **Henle, K.**, Nowick, K., Faria, R., Stadler, P.F., Schlegel, M. (2019):
Divergent evolution in the genomes of closely related lacertids, *Lacerta viridis* and *L. bilineata*, and implications for speciation
GigaScience **8** (2), giy160

354. Komatsu, K.J., Avolio, M.L., Lemoine, N.P., Isbell, F., Grman, E., Houseman, G.R., Koerner, S.E., Johnson, D.S., Wilcox, K.R., Alatalo, J.M., Anderson, J.P., Aerts, R., Baer, S.G., Baldwin, A.H., Bates, J., Beierkuhnlein, C., Belote, R.T., Blair, J., Bloor, J.M.G., Bohlen, P.J., Bork, E.W., Boughton, E.H., Bowman, W.D., Britton, A.J., Cahill jr., J.F., Chaneton, E., Chiariello, N.R., Cheng, J., Collins, S.L., Cornelissen, J.H.C., Du, G., **Eskelinen, A.**, Firn, J., Foster, B., Gough, L., Gross, K., Hallett, L.M., Han, X., Harmens, H., Hovenden, M.J., Jagerbrand, A., Jentsch, A., Kern, C., Klanderud, K., Knapp, A.K., Kreyling, J., Li, W., Luo, Y., McCulley, R.L., McLaren, J.R., Megonigal, J.P., Morgan, J.W., Onipchenko, V., Pennings, S.C., Prevéy, J.S., Price, J.N., Reich, P.B., Robinson, C.H., Russell, F.L., Sala, O.E., Seabloom, E.W., Smith, M.D., Soudzilovskaia, N.A., Souza, L., Suding, K., Suttle, K.B., Svejcar, T., Tilman, D., Tognetti, P., Turkington, R., White, S., Xu, Z., Yahdjian, L., Yu, Q., Zhang, P., Zhang, Y. (2019):
Global change effects on plant communities are magnified by time and the number of global change factors imposed
Proc. Natl. Acad. Sci. U.S.A. **116** (36), 17867 - 17873
355. Könemann, S., Müller, Y., Tschentscher, D., **Krauss, M.**, **Inostroza, P.A.**, Brückner, I., Pinnekamp, J., Schiwy, S., Hollert, H. (2019):
Combination of in situ feeding rate experiments and chemical body burden analysis to assess the influence of micropollutants in wastewater on *Gammarus pulex*
Int. J. Environ. Res. Public Health **16** (5), art. 883
356. **Kong, X.**, Koelmans, A.A. (2019):
Modeling decreased resilience of shallow lake ecosystems toward eutrophication due to microplastic ingestion across the food web
Environ. Sci. Technol. **53** (23), 13822 - 13831
357. **Kong, X.**, **Zhan, Q.**, **Boehrer, B.**, **Rinke, K.** (2019):
High frequency data provide new insights into evaluating and modeling nitrogen retention in reservoirs
Water Res. **166** , art. 115017
358. **König, S.**, Köhnke, M.C., Firle, A.-L., **Banitz, T.**, **Centler, F.**, **Frank, K.**, **Thullner, M.** (2019):
Disturbance size can be compensated for by spatial fragmentation in soil microbial ecosystems
Front. Ecol. Evol. **7** , art. 290
359. Koók, L., Bakonyi, P., **Harnisch, F.**, Kretzschmar, J., Chae, K.-J., Zhen, G., Kumar, G., Rózsenberszki, T., Tóth, G., Nemestóthy, N., Bélafi-Bakó, K. (2019):
Biofouling of membranes in microbial electrochemical technologies: Causes, characterization methods and mitigation strategies
Bioresour. Technol. **279** , 327 - 338

360. **Korell, L., Schädler, M., Brandl, R., Schreiter, S., Auge, H.** (2019): Release from above- and belowground insect herbivory mediates invasion dynamics and impact of an exotic plant
Plants **8** (12), art. 544
361. Kortenkamp, A., Faust, M., Backhaus, T., **Altenburger, R.**, Scholze, M., **Müller, C.**, Ermler, S., Posthuma, L., **Brack, W.** (2019): Mixture risks threaten water quality: the European Collaborative Project SOLUTIONS recommends changes to the WFD and better coordination across all pieces of European chemicals legislation to improve protection from exposure of the aquatic environment to multiple pollutants
Environ. Sci. Eur. **31**, art. 96
362. Kowalski, G.J., **Grimm, V.**, Herde, A., Guenther, A., Eccard, J.A. (2019): Does animal personality affect movement in habitat corridors? Experiments with common voles (*Microtus arvalis*) using different corridor widths
Animals **9** (6), art. 291
363. Kramer, K.J.M., Sleeuwaert, F., Engelen, G., **Müller, C.**, **Brack, W.**, Posthuma, L. (2019): The RiBaTox web tool: selecting methods to assess and manage the diverse problem of chemical pollution in surface waters
Environ. Sci. Eur. **31**, art. 68
364. **Kratochvil, I., Hofmann, T., Rother, S., Schlichting, R., Moretti, R., Scharnweber, D., Hintze, V., Escher, B.I., Meiler, J., Kalkhof, S., von Bergen, M.** (2019): Mono(2-ethylhexyl) phthalate (MEHP) and mono(2-ethyl-5-oxohexyl) phthalate (MEOHP) but not di(2-ethylhexyl) phthalate (DEHP) bind productively to the peroxisome proliferator-activated receptor γ
Rapid Commun. Mass Spectrom. **33** (S1), 75 - 85
365. **Krauss, M., Hug, C., Bloch, R., Schulze, T., Brack, W.** (2019): Prioritising site-specific micropollutants in surface water from LC-HRMS non-target screening data using a rarity score
Environ. Sci. Eur. **31**, art. 45
366. Kravchenko, A.N., Guber, A.K., Razavi, B.S., Koestel, J., **Blagodatskaya, E.V.**, Kuzyakov, Y. (2019): Spatial patterns of extracellular enzymes: Combining X-ray computed micro-tomography and 2D zymography
Soil Biol. Biochem. **135**, 411 - 419

367. **Krellenberg, K.**, Bergsträßer, H., Bykova, D., Kress, N., Tyndall, K. (2019):
Urban sustainability strategies guided by the SDGs—a tale of four cities
Sustainability **11** (4), art. 1116
368. **Krellenberg, K., Koch, F.**, Schubert, S., Libbe, J. (2019):
Einmal Transformation für alle, bitte! Kommunen, Stadtforschung,
Forschungsförderung und die Umsetzung der SDGs. Transformation
for all, please! Municipalities, urban studies, research funding and SDG implementation
GAIA **28** (4), 337 - 341
369. Kremer, P., **Haase, A., Haase, D.** (2019):
The future of urban sustainability: Smart, efficient, green or just? Introduction to the
special issue
Sust. Cities Soc. **51** , art. 101761
370. **Krueger, E.H., Borchardt, D.**, Jawitz, J.W., Klammler, H., Yang, S., Zischg, J., Rao, P.S.C. (2019):
Resilience dynamics of urban water supply security and potential of tipping points
Earth Future **7** (10), 1167 - 1191
371. **Krueger, E., Rao, P.S.C., Borchardt, D.** (2019):
Quantifying urban water supply security under global change
Glob. Environ. Change **56** , 66 - 74
372. **Kühnel, D.**, Nickel, C., Hellack, B., van der Zalm, E., Kussatz, C., Herrchen, M., Meisterjahn, B., Hund-Rinke, K. (2019):
Closing gaps for environmental risk screening of engineered nanomaterials
NanoImpact **15** , art. 100173
373. Kumar, A., Shahbaz, M., Koirala, M., **Blagodatskaya, E.**, Seidel, S.J., Kuzyakov, Y., Pausch, J. (2019):
Root trait plasticity and plant nutrient acquisition in phosphorus limited soil
J. Plant Nutr. Soil Sci. **182** (6), 945 - 952
374. **Küster, E., Kalkhof, S., Aulhorn, S., von Bergen, M., Gündel, U.** (2019):
Effects of five substances with different modes of action on cathepsin H, C and L activities in zebrafish embryos
Int. J. Environ. Res. Public Health **16** (20), art. 3956
375. **Ladouceur, E.**, Bonomi, C., Bruelheide, H., Klimešová, J., Burrascano, S., Poschlod, P., Tudela-Isanta, M., Iannetta, P., Mondoni, A., Amiaud, B., Cerabolini, B.E.L., Cornelissen, J.H.C., Craine, J., Louault, F., Minden, V., Öllerer, K., Onipchenko, V., Soudzilovskaia, N.A., Jiménez-Alfaro, B. (2019):
The functional trait spectrum of European temperate grasslands
J. Veg. Sci. **30** (5), 777 - 788

376. **Langhammer, M., Thober, J., Lange, M., Frank, K., Grimm, V.** (2019): Agricultural landscape generators for simulation models: A review of existing solutions and an outline of future directions
Ecol. Model. **393**, 135 - 151
377. **Lausch, A.**, Baade, J., Bannehr, L., Borg, E., **Bumberger, J.**, Chabriliat, S., **Dietrich, P.**, Gerighausen, H., Glässer, C., Hacker, J.M., **Haase, D.**, Jagdhuber, T., Jany, S., Jung, A., Karnieli, A., **Kraemer, R.**, Makki, M., Mielke, C., Möller, M., **Mollenhauer, H.**, Montzka, C., Pause, M., Rogass, C., Rozenstein, O., Schmullius, C., Schrottd, F., **Schrön, M.**, Schulz, K., **Schütze, C.**, Schweitzer, C., **Selsam, P.**, Skidmore, A.K., Spengler, D., Thiel, C., Truckenbrodt, S.C., Vohland, M., Wagner, R., **Weber, U.**, **Werban, U.**, **Wollschläger, U.**, **Zacharias, S.**, Schaepman, M.E. (2019): Linking remote sensing and geodiversity and their traits relevant to biodiversity—Part I: Soil characteristics
Remote Sens. **11** (20), art. 2356
378. **Lautenbach, S.**, Mupepele, A.-C., Dormann, C.F., Lee, H., **Schmidt, S.**, Scholte, S.S.K., **Seppelt, R.**, van Teeffelen, A.J.A., Verhagen, W., **Volk, M.** (2019): Blind spots in ecosystem services research and challenges for implementation
Reg. Envir. Chang. **19** (8), 2151 - 2172
379. Lawrence, J.R., Swerhone, G.D.W., **Neu, T.R.** (2019): Visualization of the sorption of nickel within exopolymer microdomains of bacterial microcolonies using confocal and scanning electron microscopy
Microbes Environ. **34** (1), 73 - 82
380. **Lazik, D., de Rooij, G.H., Lazik, W., Meissner, R.** (2019): A new principle for measuring the average relative humidity in large volumes of non-homogenous gas
Sensors **19** (23), art. 5073
381. **Lazik, D., Vetterlein, D., Kilian Salas, S., Sood, P., Apelt, B., Vogel, H.-J.** (2019): New sensor technology for field-scale quantification of carbon dioxide in soil
Vadose Zone J. **18** (1), art. 190007
382. Le Duy, N., Dung, N.V., **Heidbüchel, I.**, Meyer, H., Weiler, M., Merz, B., Apel, H. (2019): Identification of groundwater mean transit times of precipitation and riverbank infiltration by two-component lumped parameter models
Hydrol. Process. **33** (24), 3098 - 3118

383. Lecocq, T., **Harpke, A.**, Rasmont, P., **Schweiger, O.** (2019):
Integrating intraspecific differentiation in species distribution models: Consequences on
projections of current and future climatically suitable areas of species
Divers. Distrib. **25** (7), 1088 - 1100
384. Lee, J.-Y., Amayri, S., **Montoya, V.**, Fellhauer, D., Gaona, X., Altmaier, M. (2019):
Solubility and stability of liebigite, $\text{Ca}_2\text{UO}_2(\text{CO}_3)_3 \cdot 10\text{H}_2\text{O}(\text{cr})$, in dilute to concentrated
 NaCl and NaClO_4 solutions at $T = 22\text{--}80^\circ\text{C}$
Appl. Geochem. **111**, art. 104374
385. **Lehmann, F.**, **Daus, B.**, **Reemtsma, T.** (2019):
Germanium speciation using liquid chromatography-inductively coupled plasma-triple
quadrupole mass spectrometry: Germanium in biological and chemical leaching solutions
of fine-grained residues from copper smelting
J. Chromatogr. A **1593**, 47 - 53
386. **Lehmann, P.**, Sijm, J., **Gawel, E.**, **Strunz, S.**, Chewpreecha, U., Mercure, J.-F., Pollitt,
H. (2019):
Addressing multiple externalities from electricity generation: a case for EU renewable
energy policy beyond 2020?
Environmental Economics and Policy Studies **21** (2), 255 - 283
387. Leonhardt, S., **Hoppe, B.**, Stengel, E., Noll, L., **Moll, J.**, Bässler, C., Dahl, A., **Buscot,**
F., Hofrichter, M., Kellner, H. (2019):
Molecular fungal community and its decomposition activity in sapwood and heartwood of
13 temperate European tree species
PLOS One **14** (2), e0212120
388. Leusch, F.D.L., Neale, P.A., Busetti, F., Card, M., Humpage, A., Orbell, J.D.,
Ridgway, H.F., Stewart, M.B., van de Merwe, J.P., **Escher, B.** (2019):
Transformation of endocrine disrupting chemicals, pharmaceutical and personal care
products during drinking water disinfection
Sci. Total Environ. **657**, 1480 - 1490
389. **Leuther, F.**, **Schlüter, S.**, Wallach, R., **Vogel, H.-J.** (2019):
Structure and hydraulic properties in soils under long-term irrigation with treated
wastewater
Geoderma **333**, 90 - 98
390. **Leuthold, D.**, **Klüver, N.**, **Altenburger, R.**, **Busch, W.** (2019):
Can environmentally relevant neuroactive chemicals specifically be detected with the
locomotor response test in zebrafish embryos?
Environ. Sci. Technol. **53** (1), 482 - 493

391. Levin, S.C., Crandall, R.M., **Knight, T.M.** (2019):
Population projection models for 14 alien plant species in the presence and absence of above-ground competition
Ecology **100** (6), e02681
392. Li, A., aus der Beek, T., **Schubert, M.**, Yu, Z., Schiedek, T., Schüth, C. (2019):
Sedimentary archive of Polycyclic Aromatic Hydrocarbons and perylene sources in the northern part of Taihu Lake, China
Environ. Pollut. **246**, 198 - 206
393. Li, D., **Schrön, M.**, Köhli, M., Bogena, H., **Weimar, J.**, Jiménez Bello, M.A., Han, X., Martínez Gimeno, M.A., **Zacharias, S.**, Vereecken, H., Hendricks Franssen, H.-J. (2019):
Can drip irrigation be scheduled with cosmic-ray neutron sensing?
Vadose Zone J. **18** (1), art. 190053
394. **Lian, S., Wu, L., Nikolausz, M., Lechtenfeld, O.J., Richnow, H.H.** (2019):
 ^2H and ^{13}C isotope fractionation analysis of organophosphorus compounds for characterizing transformation reactions in biogas slurry: Potential for anaerobic treatment of contaminated biomass
Water Res. **163**, art. 114882
395. **Liang, C.**, Amelung, W., Lehmann, J., **Kästner, M.** (2019):
Quantitative assessment of microbial necromass contribution to soil organic matter
Glob. Change Biol. **25** (11), 3578 - 3590
396. **Liebelt, V., Bartke, S., Schwarz, N.** (2019):
Urban green spaces and housing prices: an alternative perspective
Sustainability **11** (13), art. 3707
397. **Liess, M., Henz, S., Knillmann, S.** (2019):
Predicting low-concentration effects of pesticides
Sci. Rep. **9**, art. 15248
398. **Liess, M.**, Ratte, T., Ebke, P., Hollert, H. (2019):
20 years SETAC GLB: increasing realism of pesticide risk assessment
Environ. Sci. Eur. **31**, art. 13
399. Lihl, C., Douglas, L.M., **Franke, S.**, Pérez-de-Mora, A., Meyer, A.H., Daubmeier, M., Edwards, E.A., **Nijenhuis, I.**, Sherwood Lollar, B., Elsner, M. (2019):
Mechanistic dichotomy in bacterial trichloroethene dechlorination revealed by carbon and chlorine isotope effects
Environ. Sci. Technol. **53** (8), 4245 - 4254

400. Lihl, C., **Renpenning, J.**, **Kümmel, S.**, Gelman, F., Schürner, H.K.V., Daubmeier, M., Heckel, B., Melsbach, A., Bernstein, A., Shouakar-Stash, O., **Gehre, M.**, Elsner, M. (2019):
Toward improved accuracy in chlorine isotope analysis: Synthesis routes for in-house standards and characterization via complementary mass spectrometry methods
Anal. Chem. **91**, 12290 - 12297
401. Lindim, C., de Zwart, D., Cousins, I.T., Kutsarova, S., **Kühne, R.**, **Schüürmann, G.** (2019):
Exposure and ecotoxicological risk assessment of mixtures of top prescribed pharmaceuticals in Swedish freshwaters
Chemosphere **220**, 344 - 352
402. Litvinchuk, S.N., Melnikov, D.A., Borkin, L.J., **Hofmann, S.** (2019):
Rediscovery of the high altitude lazy toad, *Scutiger occidentalis* Dubois, 1978, in India
Russ. J. Herpetol. **26** (1), 17 - 22
403. Liu, Q., Zhuang, L., **Yin, R.**, Ni, X., You, C., Yue, K., Tan, B., Liu, Y., Zhang, L., Xu, Z. (2019):
Root diameter controls the accumulation of humic substances in decomposing root litter
Geoderma **348**, 68 - 75
404. **Liu, Y.**, **Wu, L.**, **Kohli, P.**, Kumar, R., Stryhanyuk, H., Nijenhuis, I., Lal, R., **Richnow, H.-H.** (2019):
Enantiomer and carbon isotope fractionation of α -hexachlorocyclohexane by *Sphingobium indicum* strain B90A and the corresponding enzymes
Environ. Sci. Technol. **53** (15), 8715 - 8724
405. **Liu, Z.**, **Cichocki, N.**, **Hübschmann, T.**, **Süring, C.**, Ofiteru, I.D., Sloan, W.T., **Grimm, V.**, **Müller, S.** (2019):
Neutral mechanisms and niche differentiation in steady-state insular microbial communities revealed by single cell analysis
Environ. Microbiol. **21** (1), 164 - 181
406. **Löffler, M.**, **Kümmel, S.**, **Vogt, C.**, **Richnow, H.-H.** (2019):
H₂ kinetic isotope fractionation superimposed by equilibrium isotope fractionation during hydrogenase activity of *D. vulgaris* strain Miyazaki
Front. Microbiol. **10**, art. 1545
407. Lorscheid, I., Berger, U., **Grimm, V.**, Meyer, M. (2019):
From cases to general principles: A call for theory development through agent-based modeling
Ecol. Model. **393**, 153 - 156

408. Lu, Q., Qiu, L., Yu, L., **Zhang, S.**, Alves de Toledo, R., Shim, H., Wang, S. (2019): Microbial transformation of chiral organohalides: Distribution, microorganisms and mechanisms
J. Hazard. Mater. **368** , 849 - 861
409. **Lucas, M., Schlüter, S., Vogel, H.-J., Vetterlein, D.** (2019): Roots compact the surrounding soil depending on the structures they encounter
Sci. Rep. **9** , art. 16236
410. **Lucas, M., Schlüter, S., Vogel, H.-J., Vetterlein, D.** (2019): Soil structure formation along an agricultural chronosequence
Geoderma **350** , 61 - 72
411. **Ludwig, G.** (2019): The role of law in transformative environmental policies—a case study of “timber in buildings construction in Germany”
Sustainability **11** (3), art. 842
412. **Ludwig, G.** (2019): Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **94** (1), 37 - 38
413. **Ludwig, J.**, Höner zu Siederdissen, C., **Liu, Z.**, Stadler, P.F., **Müller, S.** (2019): flowEMMi: an automated model-based clustering tool for microbial cytometric data
BMC Bioinformatics **20** , art. 643
414. Ma, X., Mahecha, M.D., Migliavacca, M., van der Plas, F., Benavides, R., Ratcliffe, S., Kattge, J., Richter, R., Musavi, T., Baeten, L., Baroiaea, I., **Bohn, F.J.**, Bouriaud, O., Bussotti, F., Coppi, A., Domisch, T., **Huth, A.**, Jaroszewicz, B., Joswig, J., Pabon-Moreno, D.-E., Papale, D., Selvi, F., Laurin, G.V., Valladares, F., Reichstein, M., Wirth, C. (2019): Inferring plant functional diversity from space: the potential of Sentinel-2
Remote Sens. Environ. **233** , art. 111368

415. Maes, D., Verovnik, R., **Wiemers, M.**, Brosens, D., Beshkov, S., Bonelli, S., Buszko, J., Cantú-Salazar, L., Cassar, L.F., Collins, S., Dincă, V., Djuric, M., Dušej, G., Elven, H., Franeta, F., Garcia-Pereira, P., Geryak, Y., Goffart, P., Górr, A., Thiermann, U., Höttlinger, H., Huemer, P., Jakšić, P., John, E., Kalivoda, H., Kati, V., Kirkland, P., Komac, B., Kőrösi, Á., Kulak, A., Kuussaari, M., L'Hoste, L., Lelo, S., Mestdagh, X., Micevski, N., Mihoci, I., Mihut, S., Monasterio-León, Y., Morgun, D.V., Munguira, M.L., Murray, T., Stadel Nielsen, P., Ólafsson, E., Őunap, E., Pamperis, L.N., Pavlíčko, A., Pettersson, L.B., Popov, S., Popović, M., Pöyry, J., Prentice, M., Reyserhove, L., Ryrholm, N., Šašić, M., Savenkov, N., **Settele, J.**, Sielezniew, M., Sinev, S., Stefanescu, C., Švitra, G., Tammaru, T., Tiitsaar, A., Tzirkalli, E., Tzortzakaki, O., van Swaay, C.A.M., Lykke Viborg, A., Wynhoff, I., Zografou, K., Warren, M.S. (2019):
Integrating national Red Lists for prioritising conservation actions for European butterflies
J. Insect Conserv. **23** (2), 301 - 330
416. **Mahmood, M.N., Schmidt, C., Fleckenstein, J.H., Trauth, N.** (2019):
Modeling the impact of stream discharge events on riparian solute dynamics
Groundwater **57** (1), 140 - 152
417. Maliniemi, T., Happonen, K., **Virtanen, R.** (2019):
Site fertility drives temporal turnover of vegetation at high latitudes
Ecol. Evol. **9** (23), 13255 - 13266
418. **Mallast, U., Siebert, C.** (2019):
Combining continuous spatial and temporal scales for SGD investigations using UAV-based thermal infrared measurements
Hydrol. Earth Syst. Sci. **23** (3), 1375 - 1392
419. Mandić, A.D., Woting, A., Jaenicke, T., Sander, A., Sabrowski, W., **Rolle-Kampczyk, U., von Bergen, M.**, Blaut, M. (2019):
Clostridium ramosum regulates enterochromaffin cell development and serotonin release
Sci. Rep. **9** , art. 1177
420. Marcé, R., Obrador, B., Gómez-Gener, L., Catalán, N., **Koschorreck, M.**, Arce, M.I., Singer, G., von Schiller, D. (2019):
Emissions from dry inland waters are a blind spot in the global carbon cycle
Earth-Sci. Rev. **188** , 240 - 248
421. **Marselle, M.R.**, Warber, S.L., Irvine, K.N. (2019):
Growing resilience through interaction with nature: Can group walks in nature buffer the effects of stressful life events on mental health?
Int. J. Environ. Res. Public Health **16** (6), art. 986

422. Martín-López, B., **Felipe-Lucia, M.R.**, Bennett, E.M., Norström, A., Peterson, G., Plieninger, T., Hicks, C.C., Turkelboom, F., García-Llorente, M., Jacobs, S., Lavorel, S., Locatelli, B. (2019):
A novel telecoupling framework to assess social relations across spatial scales for ecosystem services research
J. Environ. Manage. **241**, 251 - 263
423. Martín-López, B., Van Oudenoven, A.P.E., Balvanera, P., Crossman, N.D., Parrotta, J.A., Rusch, G.M., **Schröter, M.**, Smith-Hall, C. (2019):
Ecosystems and People – an inclusive, interdisciplinary journal. Editorial
Ecosyst. People **15** (1), 1 - 2
424. Mascarenhas, A., **Haase, D.**, Ramos, T.B., Santos, R. (2019):
Pathways of demographic and urban development and their effects on land take and ecosystem services: The case of Lisbon Metropolitan Area, Portugal
Land Use Pol. **82**, 181 - 194
425. **Massei, R.**, Hollert, H., **Krauss, M.**, **von Tümpeling, W.**, **Weidauer, C.**, Haglund, P., **Küster, E.**, Gallampois, C., Tysklind, M., **Brack, W.** (2019):
Toxicity and neurotoxicity profiling of contaminated sediments from Gulf of Bothnia (Sweden): a multi-endpoint assay with zebrafish embryos
Environ. Sci. Eur. **31**, art. 8
426. **Massenberg, J.R.** (2019):
Social values and sustainability: a retrospective view on the contribution of economics
Sustain. Sci. **14** (5), 1233 - 1246
427. Matz, B., Kupfer, B., **Kallies, R.**, Külshammer, M., Flötenmeyer, M., Kreil, T.R., Eis-Hübinger, A.M. (2019):
Secondary structure of DNA released from purified capsids of human parvovirus B19 under moderate denaturing conditions
J. Gen. Virol. **100** (5), 812 - 827
428. Matzdorf, B., **Hansjürgens, B.**, Lienhoop, N., Schröter, B., **Schröter-Schlaack, C.**, Stöcker, U., Suntken, S., Szallies, I. (2019):
Erkenntnisse aus dem TEEB-Deutschland-Prozess für die Politikgestaltung in ländlichen Räumen nutzen : Handlungsempfehlungen am Beispiel dreier Politikfelder. Lessons learnt from the TEEB Germany process for land-use policies : recommendations for three policy areas
Nat. Landschaft **94** (1), 21 - 27
429. McFadden, I.R., Bartlett, M.K., **Wiegand, T.**, Turner, B.L., Sack, L., Valencia, R., Kraft, N.J.B. (2019):
Disentangling the functional trait correlates of spatial aggregation in tropical forest trees
Ecology **100** (3), e02591

430. McGlinn, D.J., Xiao, X., May, F., Gotelli, N.J., Engel, T., Blowes, S.A., **Knight, T.M.**, Purschke, O., Chase, J.M., McGill, B.J. (2019): Measurement of Biodiversity (MoB): A method to separate the scale-dependent effects of species abundance distribution, density, and aggregation on diversity change
Methods Ecol. Evol. **10** (2), 258 - 269
431. McGrath, G., Kaeseberg, T., Reyes Silva, J.D., Jawitz, J.W., Blumensaat, F., **Borchardt, D.**, Mellander, P.-E., Paik, K., Krebs, P., Rao, P.S.C. (2019): Network topology and rainfall controls on the variability of combined sewer overflows and loads
Water Resour. Res. **55** (11), 9578 - 9591
432. Mcleod, E., Bruton-Adams, M., **Förster, J.**, Franco, C., Gaines, G., Gorong, B., James, R., Posing-Kulwaum, G., Tara, M., Terk, E. (2019): Lessons from the Pacific Islands – Adapting to climate change by supporting social and ecological resilience
Front. Mar. Sci. **6** , art. 289
433. Medeiros Melo, T., Bottlinger, M., **Schulz, E.**, Leandro, W.M., Botelho de Oliveira, S., Menezes de Aguiar Filho, A., El-Naggar, A., Bolan, N., Wang, H., Ok, Y.S., Rinklebe, J. (2019): Management of biosolids-derived hydrochar (Sewchar): Effect on plant germination, and farmers' acceptance
J. Environ. Manage. **237** , 200 - 214
434. Medeiros Melo, T., Bottlinger, M., **Schulz, E.**, Leandro, W.M., Menezes de Aguiar Filho, A., Wang, H., Ok, Y.S., Rinklebe, J. (2019): Corrigendum to “Plant and soil responses to hydrothermally converted sewage sludge (sewchar)” [Chemosphere 206 (2018) 338–348]
Chemosphere **223** , 758
435. **Meier, J.-N., Bovet, J., Geiger, C., Lehmann, P., Tafarte, P.** (2019): Fehlt im Klimapaket ein Flächenziel für die Windenergie an Land?
Wirtschaftsdienst - Zeitschrift für Wirtschaftspolitik **99** (12), 824 - 828
436. Meisel, K., Clemens, A., **Fühner, C., Breulmann, M.**, Majer, S., **Thrän, D.** (2019): Comparative life cycle assessment of HTC concepts valorizing sewage sludge for energetic and agricultural use
Energies **12** (5), art. 786
437. **Mendoza, M.T., Schwarze, R.** (2019): Sequential disaster forensics: A case study on direct and socio-economic impacts
Sustainability **11** (21), art. 5898

438. **Meng, B., Vienken, T., Kolditz, O., Shao, H.** (2019):
Evaluating the thermal impacts and sustainability of intensive shallow geothermal utilization on a neighborhood scale: Lessons learned from a case study
Energy Conv. Manag. **199**, art. 111913
439. Metzger, J.C., Schumacher, J., Lange, M., **Hildebrandt, A.** (2019):
Neighbourhood and stand structure affect stemflow generation in a heterogeneous deciduous temperate forest
Hydrol. Earth Syst. Sci. **23** (11), 4433–4452
440. **Meurer, K.H.E., Boenecke, E., Franko, U.** (2019):
Evaluating emissions of nitrous oxide from cropland soils under different rotations in Mato Grosso, Brazil: A scenario simulation study
Pedosphere **29** (4), 432 - 443
441. **Mi, C.**, Sadeghian, A., Lindenschmidt, K.-E., **Rinke, K.** (2019):
Variable withdrawal elevations as a management tool to counter the effects of climate warming in Germany's largest drinking water reservoir
Environ. Sci. Eur. **31**, art. 19
442. Michelsen, N., **Laube, G., Friesen, J., Weise, S.M.**, Bait Said, A.B.A., **Müller, T.** (2019):
Technical note: A microcontroller-based automatic rain sampler for stable isotope studies
Hydrol. Earth Syst. Sci. **23** (6), 2637 - 2645
443. Mihajlovic, J., Bauriegel, A., **Stärk, H.-J.**, Roßkopf, N., Zeitz, J., Milbert, G., Rinklebe, J. (2019):
Rare earth elements in soil profiles of various ecosystems across Germany
Appl. Geochem. **102**, 197 - 217
444. Milotić, T., Baltzinger, C., Eichberg, C., Eycott, A.E., Heurich, M., Müller, J., Noriega, J.A., Menendez, R., **Stadler, J.**, Ádám, R., Bargmann, T., Bilger, I., Buse, J., Calatayud, J., Ciubuc, C., Boros, G., Jay-Robert, P., Kruus, M., Merivee, E., Miessen, G., Must, A., Ardali, E., Preda, E., Rahimi, I., Rohwedder, D., Rose, R., Slade, E.M., Somay, L., Tahmasebi, P., Ziani, S., Hoffmann, M. (2019):
Functionally richer communities improve ecosystem functioning: Dung removal and secondary seed dispersal by dung beetles in the Western Palaearctic
J. Biogeogr. **46** (1), 70 - 82
445. **Mimet, A.**, Buitenwerf, R., Sandel, B., Svenning, J.-C., Normand, S. (2019):
Recent global changes have decoupled species richness from specialization patterns in North American birds
Glob. Ecol. Biogeogr. **28** (11), 1621 - 1635

446. Mitter, H., Techen, A.-K., Sinabell, F., Helming, K., Kok, K., **Priess, J.A.**, Schmid, E., Bodirsky, B.L., Holman, I., Lehtonen, H., Leip, A., Le Mouël, C., Mathijs, E., Mehdi, B., Michetti, M., Mittenzwei, K., Mora, O., Øygarden, L., Reidsma, P., Schaldach, R., Schönhart, M. (2019):
A protocol to develop Shared Socio-economic Pathways for European agriculture
J. Environ. Manage. **252**, art. 109701
447. Mizukami, N., **Rakovec, O.**, Newman, A.J., Clark, M.P., Wood, A.W., Gupta, H.V., **Kumar, R.** (2019):
On the choice of calibration metrics for “high-flow” estimation using hydrologic models
Hydrol. Earth Syst. Sci. **23** (6), 2601 - 2614
448. Mock, M., Omann, I., **Polzin, C.**, Spekkink, W., Schuler, J., Pandur, V., Brizi, A., Panno, A. (2019):
“Something inside me has been set in motion”: Exploring the psychological wellbeing of people engaged in sustainability initiatives
Ecol. Econ. **160**, 1 - 11
449. **Mock, M., Schmid, A., Bühler, K.** (2019):
Photoautotrophic production of succinate via the oxidative branch of the tricarboxylic acid cycle influences glycogen accumulation in *Synechocystis* sp. PCC 6803
Algal Res. **43**, art. 101645
450. **Möckel, S.** (2019):
Germany’s excessive agricultural nitrogen emissions and the need for improving existing regulatory concepts
JEEPL **16** (3), 279 - 303
451. **Möckel, S.** (2019):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **94** (6/7), 313 - 314
452. **Möckel, S.** (2019):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **94** (8), 363 - 365
453. **Möckel, S.** (2019):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **94** (2), 80 - 82
454. **Möckel, S.** (2019):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **94** (3), 135 - 136

455. **Möckel, S.** (2019):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **94** (11), 501 - 503
456. **Möckel, S.** (2019):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **94** (4), 175 - 176
457. **Möckel, S.** (2019):
Natura 2000 Verträglichkeitsprüfung: neue Entscheidungen des EuGH verdeutlichen die Defizite der deutschen Rechtslage und Rechtspraxis
Nat. Recht **41** (3), 152 - 159
458. Möller, P., Rosenthal, E., **Siebert, C.** (2019):
Comments on “The Sdom evaporite formation in Israel and its relationship with the Messinian Salinity Crisis” by J. Charrach
Carbonates Evaporites **34** (4), 1877 - 1880
459. Mooij, W.M., van Wijk, D., Beusen, A.H.W., Brederveld, R.J., Chang, M., Cobben, M.M.P., DeAngelis, D.L., Downing, A.S., Green, P., Gsell, A.S., Huttunen, I., Janse, J.H., Janssen, A.B.G., Hengeveld, G.M., **Kong, X.**, Kramer, L., Kuiper, J.J., Langan, S.J., Nolet, B.A., Nuijten, R.J.M., Strokal, M., Troost, T.A., Van Dam, A.A., Teurlincx, S. (2019):
Modeling water quality in the Anthropocene: directions for the next-generation aquatic ecosystem models
Curr. Opin. Environ. Sustain. **36**, 85 - 95
460. Moravec, V., Markonis, Y., **Rakovec, O.**, Kumar, R., Hanel, M. (2019):
A 250-year European drought inventory derived from ensemble hydrologic modeling
Geophys. Res. Lett. **46** (11), 5909 - 5917
461. **Moreno Osorio, J.H.**, Benettoni, P., Schmidt, M., Stryhanyuk, H., Schmitt-Jansen, M., Pinto, G., Pollio, A., Frunzo, L., Lens, P.N.L., **Richnow, H.H.**, Esposito, G., **Musat, N.** (2019):
Investigation of architecture development and phosphate distribution in *Chlorella* biofilm by complementary microscopy techniques
FEMS Microbiol. Ecol. **95** (4), fiz029
462. **Mueller, A.**, Ulrich, N., Hollmann, J., Zapata Sanchez, C.E., Rolle-Kampczyk, U.E., von Bergen, M. (2019):
Characterization of a multianalyte GC-MS/MS procedure for detecting and quantifying polycyclic aromatic hydrocarbons (PAHs) and PAH derivatives from air particulate matter for an improved risk assessment
Environ. Pollut. **255** (Part 2), art. 112967

463. Müller, M.E., Vikstrom, S., **König, M.**, **Schlichting, R.**, Zarfl, C., Zwiener, C., **Escher, B.I.** (2019):
Mitochondrial toxicity of selected micropollutants, their mixtures and surface water samples measured by the oxygen consumption rate in cells
Environ. Toxicol. Chem. **38** (5), 1000 - 1011
464. **Müller, T.**, Sanford, W. (2019):
Calibration of regional hydraulic and transport properties of an arid-region aquifer under modern and paleorecharge conditions using water levels and environmental tracers
Hydrogeol. J. **27** (2), 685 - 701
465. Munthe, J., Lexén, J., Skårman, T., Posthuma, L., **Brack, W.**, **Altenburger, R.**, Brorström-Lundén, E., Bunke, D., Faust, M., Rahmberg, M., Sleeuwaert, F., Slobodnik, J., van Gils, J., van Wezel, A. (2019):
Increase coherence, cooperation and cross-compliance of regulations on chemicals and water quality
Environ. Sci. Eur. **31** , art. 64
466. **Musche, M.**, Adamescu, M., Angelstam, P., Bacher, S., Bäck, J., Buss, H.L., Duffy, C., Flaim, G., Gaillardet, J., Giannakis, G.V., Haase, P., Halada, L., Kissling, W.D., Lundin, L., Matteucci, G., Meesenburg, H., Monteith, D., Nikolaidis, N.P., Pipan, T., Pyšek, P., Rowe, E.C., Roy, D.B., Sier, A., Tappeiner, U., Vilà, M., White, T., Zobel, M., **Klotz, S.** (2019):
Research questions to facilitate the future development of European long-term ecosystem research infrastructures: A horizon scanning exercise
J. Environ. Manage. **250** , art. 109479
467. **Muskus, A.**, **Krauss, M.**, **Miltner, A.**, Hamer, U., Nowak, K.M. (2019):
Effect of temperature, pH and total organic carbon variations on microbial turnover of ^{13}C ^{15}N -glyphosate in agricultural soil
Sci. Total Environ. **658** , 697 - 707
468. Muurinen, L., Oksanen, J., Vanha-Majamaa, I., **Virtanen, R.** (2019):
Legacy effects of logging on boreal forest understorey vegetation communities in decadal time scales in northern Finland
For. Ecol. Manage. **436** , 11 - 20
469. Mykhnenko, V., **Wolff, M.** (2019):
State rescaling and economic convergence
Reg. Stud. **53** (4), 462 - 477
470. Nagel, R., **Durka, W.**, Bossdorf, O., Bucharova, A. (2019):
Rapid evolution in native plants cultivated for ecological restoration: not a general pattern
Plant Biol. **21** (3), 551 - 558

471. Nannipieri, P., Penton, C.R., **Purahong, W.**, Schloter, M., van Elsas, J.D. (2019): Recommendations for soil microbiome analyses
Biol. Fert. Soils **55** (8), 765 - 766
472. **Nawaz, A., Purahong, W.**, Herrmann, M., Küsel, K., **Buscot, F., Wubet, T.** (2019): DNA- and RNA- derived fungal communities in subsurface aquifers only partly overlap but react similarly to environmental factors
Microorganisms **7** (9), art. 341
473. Nguyen, P.M., Afzal, M., Ullah, I., **Shahid, N.**, Baqar, M., **Arslan, M.** (2019): Removal of pharmaceuticals and personal care products using constructed wetlands: effective plant-bacteria synergism may enhance degradation efficiency
Environ. Sci. Pollut. Res. **26** (21), 21109 - 21126
474. Nikolenko, O., Orban, P., Jurado, A., Morana, C., Jamin, P., Robert, T., **Knöller, K.**, Borges, A.V., Brouyère, S. (2019): Dynamics of greenhouse gases in groundwater: hydrogeological and hydrogeochemical controls
Appl. Geochem. **105** , 31 - 44
475. **Nivala, J.**, Abdallat, G., **Aubron, T.**, Al-Zreiqat, I., Abbassi, B., **Wu, G.-M., van Afferden, M., Müller, R.A.** (2019): Vertical flow constructed wetlands for decentralized wastewater treatment in Jordan: Optimization of total nitrogen removal
Sci. Total Environ. **671** , 495 - 504
476. **Nivala, J.**, Boog, J., Headley, T., **Aubron, T.**, Wallace, S., Brix, H., **Mothes, S., van Afferden, M., Müller, R.A.** (2019): Side-by-side comparison of 15 pilot-scale conventional and intensified subsurface flow wetlands for treatment of domestic wastewater
Sci. Total Environ. **658** , 1500 - 1513
477. Noacco, V., **Sarrazin, F.**, Pianosi, F., Wagener, T. (2019): Matlab/R workflows to assess critical choices in Global Sensitivity Analysis using the SAFE toolbox
MethodsX **6** , 2258 - 2280
478. **Nogueira, G.**, Stigter, T.Y., Zhou, Y., Mussa, F., Juizo, D. (2019): Understanding groundwater salinization mechanisms to secure freshwater resources in the water-scarce city of Maputo, Mozambique
Sci. Total Environ. **661** , 723 - 736

479. Oberlack, C., Sietz, D., Bürgi Bonanomi, E., de Bremond, A., Dell'Angelo, J., Eisenack, K., Ellis, E.C., Epstein, G., Giger, M., Heinemann, A., Kimmich, C., Kok, M.T.J., Manuel-Navarrete, D., Messerli, P., Meyfroidt, P., **Václavík, T.**, Villamayor-Tomas, S. (2019):
Archetype analysis in sustainability research: meanings, motivations, and evidence-based policy making
Ecol. Soc. **24** (2), art. 26
480. Obringer, R., **Kumar, R.**, Nateghi, R. (2019):
Analyzing the climate sensitivity of the coupled water-electricity demand nexus in the Midwestern United States
Appl. Energy **252** , art. 113466
481. **Ogungbemi, A., Leuthold, D., Scholz, S., Küster, E.** (2019):
Hypo- or hyperactivity of zebrafish embryos provoked by neuroactive substances: a review on how experimental parameters impact the predictability of behavior changes
Environ. Sci. Eur. **31** , art. 88
482. Oke, K.B., **Motivans, E.**, Quinn, T.P., Hendry, A.P. (2019):
Sexual dimorphism modifies habitat-associated divergence: Evidence from beach and creek breeding sockeye salmon
J. Evol. Biol. **32** (3), 227 - 242
483. Oldham, C., Beer, J., Blodau, C., **Fleckenstein, J.H.**, Jones, L., Neumann, C., Peiffer, S. (2019):
Controls on iron(II) fluxes into waterways impacted by acid mine drainage: A Damköhler analysis of groundwater seepage and iron kinetics
Water Res. **153** , 11 - 20
484. Ongey, E.L., Santolin, L., Waldburger, S., **Adrian, L.**, Riedel, S.L., Neubauer, P. (2019):
Bioprocess development for lantibiotic ruminococcin-A production in *Escherichia coli* and kinetic insights into LanM enzymes catalysis
Front. Microbiol. **10** , art. 2133
485. Op de Hipt, F., Diekkrüger, B., Steup, G., Yira, Y., Hoffmann, T., **Rode, M.**, Näschen, K. (2019):
Modeling the effect of land use and climate change on water resources and soil erosion in a tropical West African catchment (Dano, Burkina Faso) using SHETTRAN
Sci. Total Environ. **653** , 431 - 445

486. **Osterman, J.**, Wintermantel, D., Locke, B., Jonsson, O., Semberg, E., Onorati, P., Forsgren, E., Rosenkranz, P., Rahbek-Pedersen, T., Bommarco, R., Smith, H.G., Rundlöf, M., de Miranda, J.R. (2019):
Clothianidin seed-treatment has no detectable negative impact on honeybee colonies and their pathogens
Nat. Commun. **10**, art. 692
487. **Ouyang, W.-Y.**, Su, J.-Q., **Richnow, H.H.**, **Adrian, L.** (2019):
Identification of dominant sulfamethoxazole-degraders in pig farm-impacted soil by DNA and protein stable isotope probing
Environ. Int. **126**, 118 - 126
488. Pankoke, H., Tewes, L.J., **Matties, S.**, Hensen, I., **Schädler, M.**, **Ebeling, S.**, **Auge, H.**, Müller, C. (2019):
Pre-adaptations and shifted chemical defences provide *Buddleja davidii* populations with high resistance against antagonists in the invasive range
Biol. Invasions **21** (2), 333 - 347
489. **Parisio, F.**, Tarokh, A., Makhnenko, R., **Naumov, D.**, **Miao, X.-Y.**, **Kolditz, O.**, Nagel, T. (2019):
Experimental characterization and numerical modelling of fracture processes in granite
Int. J. Solids Struct. **163**, 102 - 116
490. Parker, S.S., **Harpole, W.S.**, Seabloom, E.W. (2019):
Plant species natural abundances are determined by their growth and modification of soil resources in monoculture
Plant Soil **445**, 273 - 287
491. Pauleit, S., Ambrose-Oji, B., Andersson, E., Anton, B., Buijs, A., **Haase, D.**, Elands, B., Hansen, R., Kowarik, I., Kronenberg, J., Mattijssen, T., Stahl Olafsson, A., Rall, E., van der Jagt, A.P.N. (2019):
Advancing urban green infrastructure in Europe: Outcomes and reflections from the GREEN SURGE project
Urban For. Urban Green. **40**, 4 - 16
492. Pauleit, S., Andersson, E., Anton, B., Buijs, A., **Haase, D.**, Hansen, R., Kowarik, I., Stahl Olafsson, A., Van der Jagt, S. (2019):
Urban green infrastructure – connecting people and nature for sustainable cities
Urban For. Urban Green. **40**, 1 - 3

493. **Pe'er, G.**, Zinngrebe, Y., Moreira, F., Sirami, C., Schindler, S., Müller, R., Bontzorlos, V., Clough, D., Bezák, P., **Bonn, A.**, **Hansjürgens, B.**, Lomba, A., **Möckel, S.**, Passoni, G., Schleyer, C., **Schmidt, J.**, Lakner, S. (2019): A greener path for the EU Common Agricultural Policy: It's time for sustainable, environmental performance
Science **365** (6452), 449 - 451
494. **Peichl, M.**, **Thober, S.**, **Samaniego, L.**, **Hansjürgens, B.**, **Marx, A.** (2019): Climate impacts on long-term silage maize yield in Germany
Sci. Rep. **9** , art. 7674
495. Penone, C., Allan, E., Soliveres, S., Felipe-Lucia, M.R., Gossner, M.M., Seibold, S., Simons, N.K., Schall, P., van der Plas, F., Manning, P., Manzanedo, R.D., Boch, S., Prati, D., Ammer, C., Bauhus, J., **Buscot, F.**, Ehbrecht, M., **Goldmann, K.**, Jung, K., Müller, J., Müller, J.C., Pena, R., Polle, A., Renner, S.C., Ruess, L., Schönig, I., Schrumpf, M., Solly, E.F., Tschapka, M., Weisser, W.W., **Wubet, T.**, Fischer, M. (2019): Specialisation and diversity of multiple trophic groups are promoted by different forest features
Ecol. Lett. **22** (1), 170 - 180
496. Perino, A., Pereira, H.M., Navarro, L.M., Fernández, N., Bullock, J.M., Ceaușu, S., Cortés-Avizanda, A., van Klink, R., Kuemmerle, T., Lomba, A., **Pe'er, G.**, Plieninger, T., Rey Benayas, J.M., Sandom, C.J., Svenning, J.-C., Wheeler, H.C. (2019): Rewilding complex ecosystems
Science **364** (6438), eaav5570
497. Peters, A., Krumbholz, P., Jäger, E., **Heintz-Buschart, A.**, Çakir, M.V., Rothmund, S., Gaudl, A., Ceglarek, U., Schöneberg, T., Stäubert, C. (2019): Correction: Metabolites of lactic acid bacteria present in fermented foods are highly potent agonists of human hydroxycarboxylic acid receptor 3
PLoS Genet. **15** (7), e1008283
498. Peters, A., Krumbholz, P., Jäger, E., **Heintz-Buschart, A.**, Çakir, M.V., Rothmund, S., Gaudl, A., Ceglarek, U., Schöneberg, T., Stäubert, C. (2019): Metabolites of lactic acid bacteria present in fermented foods are highly potent agonists of human hydroxycarboxylic acid receptor 3
PLoS Genet. **15** (5), e1008145
499. Peterson, A., Harpke, D., Peterson, J., **Harpke, A.**, Peruzzi, L. (2019): A pre-Miocene Irano-Turanian cradle: Origin and diversification of the species-rich monocot genus *Gagea* (Liliaceae)
Ecol. Evol. **9** (10), 5870 - 5890

500. Philipp, K., Lemke, F., **Scholz, S.**, Wallrabe, U., Wapler, M.C., Koukourakis, N., Czarske, J.W. (2019):
Diffraction-limited axial scanning in thick biological tissue with an aberration-correcting adaptive lens
Sci. Rep. **9**, art. 9532
501. Pietsch, K.A., Eichenberg, D., Nadrowski, K., Bauhus, J., **Buscot, F.**, **Purahong, W.**, Wipfler, B., **Wubet, T.**, Yu, M., Wirth, C. (2019):
Wood decomposition is more strongly controlled by temperature than by tree species and decomposer diversity in highly species rich subtropical forests
Oikos **128** (5), 701 - 715
502. Pihlap, E., Vuko, M., **Lucas, M.**, Steffens, M., Schloter, M., **Vetterlein, D.**, Endenich, M., Kögel-Knabner, I. (2019):
Initial soil formation in an agriculturally reclaimed open-cast mining area - the role of management and loess parent material
Soil Tillage Res. **191**, 224 - 237
503. Pinheiro, A., de Sousa-Pereira, P., Almeida, T., **Ferreira, C.C.**, Otis, T., Boudreau, M.R., Seguin, J.L., Lanning, D.K., Esteves, P.J. (2019):
Sequencing of VDJ genes in *Lepus americanus* confirms a correlation between VHn expression and the leporid species continent of origin
Mol. Immunol. **112**, 182 - 187
504. Piponiot, C., **Rödig, E.**, Putz, F.E., Rutishauser, E., Sist, P., Ascarrunz, N., Blanc, L., Derroire, G., Descroix, L., Carneiro Guedes, M., Coronado, E.H., **Huth, A.**, Kanashiro, M., Licona, J.C., Mazzei, L., Neves d'Oliveira, M.V., Peña-Claros, M., Rodney, K., Shenkin, A., Rodrigues de Souza, C., Vidal, E., West, T.A.P., Wortel, V., Hérault, B. (2019):
Can timber provision from Amazonian production forests be sustainable?
Environ. Res. Lett. **14** (6), art. 064014
505. Pöhlitz, J., Rücknagel, J., **Schlüter, S.**, **Vogel, H.-J.**, Christen, O. (2019):
Computed tomography as an extension of classical methods in the analysis of soil compaction, exemplified on samples from two tillage treatments and at two moisture tensions
Geoderma **346**, 52 - 62
506. Pontarp, M., Bunnefeld, L., Cabral, J.S., Etienne, R.S., Fritz, S.A., Gillespie, R., Graham, C.H., Hagen, O., Hartig, F., Huang, S., Jansson, R., Maliet, O., Münkemüller, T., Pellissier, L., Rangel, T.F., Storch, D., **Wiegand, T.**, Hurlbert, A.H. (2019):
The latitudinal diversity gradient: Novel understanding through mechanistic eco-evolutionary models
Trends Ecol. Evol. **34** (3), 211 - 223

507. Poorter, L., Rozendaal, D.M.A., Bongers, F., de Almeida-Cortez, J.S., Almeyda Zambrano, A.M., Álvarez, F.S., Andrade, J.L., Arreola Villa, L.F., Balvanera, P., Becknell, J.M., Bentos, T.V., Bhaskar, R., Boukili, V., Brancalion, P.H.S., Broadbent, E.N., César, R.G., Chave, J., Chazdon, R.L., Dalla Colletta, G., Craven, D., de Jong, B.H.J., Denslow, J.S., Dent, D.H., DeWalt, S.J., Díaz García, E., Dupuy, J.M., Durán, S.M., Espírito Santo, M.M., Fandiño, M.C., Fernandes, G.W., Finegan, B., Granda Moser, V., Hall, J.S., Hernández-Stefanoni, J.L., Jakovac, C.C., Junqueira, A.B., Kennard, D., Lebrija-Trejos, E., Letcher, S.G., Lohbeck, M., Lopez, O.R., Marín-Spiotta, E., Martínez-Ramos, M., Martins, S.V., Massoca, P.E.S., Meave, J.A., Mesquita, R., Mora, F., de Souza Moreno, V., Müller, S.C., Muñoz, R., Muscarella, R., de Oliveira Neto, S.N., Nunes, Y.R.F., Ochoa-Gaona, S., Paz, H., Peña-Claros, M., Piotto, D., Ruíz, J., Sanaphre-Villanueva, L., Sanchez-Azofeifa, A., Schwartz, N.B., Steininger, M.K., Thomas, W.W., Toledo, M., Uriarte, M., Utrera, L.P., van Breugel, M., **van der Sande, M.T.**, van der Wal, H., Veloso, M.D.M., Vester, H.F.M., Vieira, I.C.G., Villa, P.M., Williamson, G.B., Wright, S.J., Zanini, K.J., Zimmerman, J.K., Westoby, M. (2019):
Wet and dry tropical forests show opposite successional pathways in wood density but converge over time
Nat. Ecol. Evol. **3** (6), 928 - 934
508. Popp, A.L., **Lutz, S.R.**, Khatami, S., van Emmerik, T.H.M., Knoben, W.J.M. (2019):
A global survey on the perceptions and impacts of gender inequality in the Earth and space sciences
Earth Space Sci. **6** (8), 1460 - 1468
509. Porst, G., **Brauns, M.**, Irvine, K., Solimini, A., Sandin, L., Pusch, M., Miller, O. (2019):
Effects of shoreline alteration and habitat heterogeneity on macroinvertebrate community composition across European lakes
Ecol. Indic. **98** , 285 - 296
510. Posthuma, L., **Altenburger, R.**, Backhaus, T., Kortenkamp, A., **Müller, C.**, Focks, A., de Zwart, D., **Brack, W.** (2019):
Improved component-based methods for mixture risk assessment are key to characterize complex chemical pollution in surface waters
Environ. Sci. Eur. **31** , art. 70
511. Posthuma, L., Backhaus, T., Hollender, J., Bunke, D., **Brack, W.**, **Müller, C.**, van Gils, J., Hollert, H., Munthe, J., van Wezel, A. (2019):
Exploring the ‘solution space’ is key: SOLUTIONS recommends an early-stage assessment of options to protect and restore water quality against chemical pollution
Environ. Sci. Eur. **31** , art. 73

512. Posthuma, L., **Brack, W.**, van Gils, J., Focks, A., **Müller, C.**, de Zwart, D., Birk, S. (2019): Mixtures of chemicals are important drivers of impacts on ecological status in European surface waters
Environ. Sci. Eur. **31**, art. 71
513. Posthuma, L., Munthe, J., van Gils, J., **Altenburger, R.**, **Müller, C.**, Slobodnik, J., **Brack, W.** (2019): A holistic approach is key to protect water quality and monitor, assess and manage chemical pollution of European surface waters
Environ. Sci. Eur. **31**, art. 67
514. Procházka, E., Melvin, S.D., **Escher, B.I.**, Plewa, M.J., Leusch, F.D.L. (2019): Global transcriptional analysis of nontransformed human intestinal epithelial cells (FHs 74 Int) after exposure to selected drinking water disinfection by-products
Environ. Health Perspect. **127** (11), art. 117006
515. Pucher, M., Wünsch, U., Weigelhofer, G., Murphy, K., Hein, T., **Graeber, D.** (2019): staRdom: Versatile software for analyzing spectroscopic data of dissolved organic matter in R
Water **11**, art. 2366
516. **Pujades, E.**, Jurado, A., Orban, P., Dassargues, A. (2019): Parametric assessment of hydrochemical changes associated to underground pumped hydropower storage
Sci. Total Environ. **659**, 599 - 611
517. **Purahong, W.**, Kahl, T., **Krüger, D.**, **Buscot, F.**, **Hoppe, B.** (2019): Home-field advantage in wood decomposition is mainly mediated by fungal community shifts at "home" versus "away"
Microb. Ecol. **78** (3), 725 - 736
518. **Purahong, W.**, Pietsch, K.A., Bruelheide, H., Wirth, C., **Buscot, F.**, **Wubet, T.** (2019): Potential links between wood-inhabiting and soil fungal communities: Evidence from high-throughput sequencing
MicrobiologyOpen **8** (9), art. e856
519. **Purahong, W.**, Sadubsarn, D., **Tanunchai, B.**, Wahdan, S.F.M., Sansupa, C., Noll, M., Wu, Y.-T., **Buscot, F.** (2019): First insights into the microbiome of a mangrove tree reveal significant differences in taxonomic and functional composition among plant and soil compartments
Microorganisms **7** (12), art. 585

520. **Purahong, W., Wu, Y.-T., Chen, C.-T., Mapook, A.** (2019):
Characterization of the *Castanopsis carlesii* deadwood mycobiome by Pacbio sequencing
of the full-length fungal nuclear ribosomal internal transcribed spacer (ITS)
Front. Microbiol. **10**, art. 983
521. **Purahong, W., Wubet, T., Krüger, D., Buscot, F.** (2019):
Application of next-generation sequencing technologies to conservation of
wood-inhabiting fungi
Conserv. Biol. **33** (3), 716 - 724
522. Purvis, A., Butchart, S.H.M., Brondízio, E.S., **Settele, J.**, Díaz, S. (2019):
No inflation of threatened species
Science **365** (6455), 767
523. Pęziak-Kowalska, D., Syguda, A., Ławniczak, Ł., Borkowski, A., Fourcade,
F., **Heipieper, H.J.**, Lota, G., Chrzanowski, L. (2019):
Hybrid electrochemical and biological treatment of herbicidal ionic liquids comprising
the MCPA anion
Ecotox. Environ. Safe. **181**, 172 - 179
524. Qian, Y., Chen, K., **Liu, Y.**, Li, J. (2019):
Assessment of hexachlorcyclohexane biodegradation in contaminated soil by
compound-specific stable isotope analysis
Environ. Pollut. **254** (Part A), art. 113008
525. **Rada, S., Schweiger, O., Harpke, A., Kühn, E., Kuras, T., Settele, J., Musche, M.**
(2019):
Protected areas do not mitigate biodiversity declines: A case study on butterflies
Divers. Distrib. **25** (2), 217 - 224
526. Radchuk, V., De Laender, F., Cabral, J.S., Bou langeat, I., Crawford, M., **Bohn, F.**,
, De Raedt, J., Scherer, C., Svenning, J.-C., Thonicke, K., Schurr, F.M., **Grimm, V.**,
Kramer-Schadt, S. (2019):
The dimensionality of stability depends on disturbance type
Ecol. Lett. **22** (4), 674 - 684
527. Radchuk, V., Kramer-Schadt, S., **Grimm, V.** (2019):
Transferability of mechanistic ecological models is about emergence
Trends Ecol. Evol. **34** (6), 487 - 488
528. Radel, C., Jokisch, B.D., Schmook, B., Carte, L., Aguilar-Støen, M., **Hermans, K.**,
Zimmerer, K., Aldrich, S. (2019):
Migration as a feature of land system transitions
Curr. Opin. Environ. Sustain. **38**, 103 - 110

529. **Rakovec, O.**, Mizukami, N., **Kumar, R.**, Newman, A.J., **Thober, S.**, Wood, A.W., Clark, M.P., **Samaniego, L.** (2019): Diagnostic evaluation of large-domain hydrologic models calibrated across the contiguous United States
J. Geophys. Res.-Atmos. **124** (24), 13991 - 14007
530. Ramirez-Reyes, C., Brauman, K.A., Chaplin-Kramer, R., Galford, G.L., Adamo, S.B., Anderson, C.B., Anderson, C., Allington, G.R.H., Bagstad, K.J., Coe, M.T., **Cord, A.F.**, Dee, L.E., Gould, R.K., Jain, M., Kowal, V.A., Muller-Karger, F.E., Norriss, J., Potapov, P., Qiu, J., Schrieber, K., Rieb, J.T., Robinson, B.E., Samberg, L.H., Singh, N., Szeto, S.H., Voigt, B., Watson, K., Wright, T.M. (2019): Reimagining the potential of Earth observations for ecosystem service assessment
Sci. Total Environ. **665** , 1053 - 1063
531. Rasul, M., Yasmin, S., Suleman, M., Zaheer, A., **Reitz, T.**, **Tarkka, M.T.**, Islam, E., Mirza, M.S. (2019): Glucose dehydrogenase gene containing phosphobacteria for biofortification of Phosphorus with growth promotion of rice
Microbiol. Res. **223–225** , 1 - 12
532. Rath, C., Burger, J., Norval, L., Kraemer, S.D., Gensch, N., van der Kooi, A., **Reinemann, C.**, O'Sullivan, C., Svobodova, M., Roth, G. (2019): Comparison of different label-free imaging high-throughput biosensing systems for aptamer binding measurements using thrombin aptamers
Anal. Biochem. **583** , art. 113323
533. Raymundo, D., Prado-Junior, J., Carvalho, F.A., do Vale, V.S., Oliveira, P.E., **van der Sande, M.T.** (2019): Shifting species and functional diversity due to abrupt changes in water availability in tropical dry forests
J. Ecol. **107** (1), 253 - 264
534. **Reese, M.**, **Bedtke, N.**, **Gawel, E.**, **Klauer, B.**, **Köck, W.**, **Möckel, S.** (2019): Wasserrahmenrichtlinie - Wege aus der Umsetzungskrise
Wasser und Abfall **21** (3), 47 - 54
535. **Reese, M.**, **Köck, W.** (2019): Flussgebietsweites Sedimentmanagement unter der EG-Wasserrahmenrichtlinie am Beispiel der Elbe
Wasser und Abfall **21** (4), 33 - 40
536. Rehman, K., Ijaz, A., **Arslan, M.**, Afzal, M. (2019): Floating treatment wetlands as biological buoyant filters for wastewater reclamation
Int. J. Phytoremediat. **21** (13), 1273 - 1289

537. Reina, R., Kellner, H., Hess, J., **Jehmlich, N.**, García-Romera, I., Aranda, E., Hofrichter, M., Liers, C. (2019):
Genome and secretome of *Chondrostereum purpureum* correspond to saprotrophic and phytopathogenic life styles
PLOS One **14** (3), e0212769
538. Reinhardt, T., van Schingen, M., Windisch, H.S., Nguyen, T.Q., Ziegler, T., **Fink, P.** (2019):
Monitoring a loss: Detection of the semi-aquatic crocodile lizard (*Shinisaurus crocodilurus*) in inaccessible habitats via environmental DNA
Aquat. Conserv.-Mar. Freshw. Ecosyst. **29** (3), 353 - 360
539. **Reyes, J.**, Wendroth, O., Matocha, C., Zhu, J. (2019):
Delineating site-specific management zones and evaluating soil water temporal dynamics in a farmer's field in Kentucky
Vadose Zone J. **18** (1), art. 180143
540. Reyes-García, V., Andrés-Conejero, O., Fernández-Llamazares, A., **Díaz-Reviriego, I.** (2019):
A road to conflict: Stakeholder's and social network analysis of the media portrayals of a social-environmental conflict in Bolivia
Soc. Nat. Resour. **32** (4), 452 - 472
541. Reyes-García, V., Powell, B., **Díaz-Reviriego, I.**, Fernández-Llamazares, A., Gallois, S., Gueze, M. (2019):
Dietary transitions among three contemporary hunter-gatherers across the tropics
Food Secur. **11** (1), 109 - 122
542. **Richert, I.**, Yager, P.L., Dinasquet, J., Logares, R., Riemann, L., **Wendeberg, A.**, Bertilsson, S., Scofield, D.G. (2019):
Summer comes to the Southern Ocean: how phytoplankton shape bacterioplankton communities far into the deep dark sea
Ecosphere **10** (3), e02641
543. **Richter, A.** (2019):
Digitale Medien und Techniken im ehrenamtlichen Naturschutz. Digital media and technologies in voluntary nature conservation
Nat. Landschaft **94** (3), 103 - 111
544. **Richter, A.**, Sieber, A., Siebert, J., Miczajka-Rußmann, V., Zabel, J., Ziegler, D., **Hecker, S.**, Frigerio, D. (2019):
Storytelling for narrative approaches in citizen science: towards a generalized model
JCOM: Journal of Science Communication **18** (6), art. A 02

545. **Rink, D.**, Görbing, M. (2019):
Zwischenutzungen in unterschiedlichen urbanen Kontexten. Die Beispiele Leipzig und Dessau-Roßlau. Interim uses in different urban contexts. The cases of Leipzig and Dessau-Roßlau
Raumforschung und Raumordnung **77** (6), 601 - 615
546. Risch, A.C., Zimmermann, S., Ochoa-Hueso, R., Schütz, M., Frey, B., Firn, J.L., Fay, P.A., Hagedorn, F., Borer, E.T., Seabloom, E.W., **Harpole, W.S.**, Knops, J.M.H., McCulley, R.L., Broadbent, A.A.D., Stevens, C.J., Silveira, M.L., Adler, P.B., Báez, S., Biederman, L.A., Blair, J.M., Brown, C.S., Caldeira, M.C., Collins, S.L., Daleo, P., di Virgilio, A., Ebeling, A., Eisenhauer, N., Esch, E., **Eskelinen, A.**, Hagenah, N., Hautier, Y., Kirkman, K.P., MacDougall, A.S., Moore, J.L., Power, S.A., Prober, S.M., **Roscher, C.**, Sankaran, M., Siebert, J., Speziale, K.L., Tognetti, P.M., **Virtanen, R.**, Yahdjian, L., Moser, B. (2019): Soil net nitrogen mineralisation across global grasslands
Nat. Commun. **10** (1), art. 4981
547. **Rode, J.**, Pinzon, A., Stabile, M.C.C., Pirker, J., Bauch, S., Iribarrem, A., Sammon, P., Llerena, C.A., Muniz Alves, L., Orihuela, C.E., **Wittmer, H.** (2019): Why ‘blended finance’ could help transitions to sustainable landscapes: Lessons from the Unlocking Forest Finance project
Ecosyst. Serv. **37** , art. 100917
548. **Rödig, E.**, **Knapp, N.**, **Fischer, R.**, **Bohn, F.J.**, Dubayah, R., Tang, H., **Huth, A.** (2019): From small-scale forest structure to Amazon-wide carbon estimates
Nat. Commun. **10** , art. 5088
549. Rodríguez-Caro, R.C., **Wiegand, T.**, White, E.R., Sanz-Aguilar, A., Giménez, A., Graciá, E., van Benthem, K.J., Anadón, J.D. (2019): A low cost approach to estimate demographic rates using inverse modeling
Biol. Conserv. **237** , 358 - 365
550. **Roeder, A.**, Schweingruber, F.H., Fischer, M., **Roscher, C.** (2019): Increasing plant diversity of experimental grasslands alters the age and growth of *Plantago lanceolata* from younger and faster to older and slower
Oikos **128** (8), 1182 - 1193
551. Röhl, M., Roth, S., Schütz, W., **Zehnsdorf, A.**, Herbes, C. (2019): Biogas production from submerged macrophytes—a case study of regional biomass potentials in Germany
Energy Sustain. Soc. **9** , art. 21

552. **Rojo-Nieto, E., Muz, M.**, Koschorreck, J., Rüdel, H., **Jahnke, A.** (2019):
Passive equilibrium sampling of hydrophobic organic compounds in homogenised fish tissues of low lipid content
Chemosphere **220**, 501 - 504
553. Rosado, P.M., Leite, D.C.A., Duarte, G.A.S., Chaloub, R.M., Jospin, G., **Nunes da Rocha, U., Saraiva, J.P.**, Dini-Andreote, F., Eisen, J.A., Bourne, D.G., Peixoto, R.S. (2019):
Marine probiotics: increasing coral resistance to bleaching through microbiome manipulation
ISME J. **13**, 921 - 936
554. Rosche, C., Hensen, I., Schaar, A., Zehra, U., Jasieniuk, M., Callaway, R.M., Khasa, D.P., Al-Ghraibeh, M.M., Lekberg, Y., Nagy, D.U., Pal, R.W., Okada, M., Schrieber, K., Turner, K.G., Lachmuth, S., Erst, A., Tsunoda, T., Sheng, M., **Schmidt, R.**, Peng, Y., Luo, W., Jäschke, Y., Reshi, Z.A., Shah, M.A. (2019):
Climate outweighs native vs. nonnative range-effects for genetics and common garden performance of a cosmopolitan weed
Ecol. Monogr. **89** (4), e01386
555. **Roscher, C.**, Karlowsky, S., Milcu, A., Gessler, A., Bachmann, D., Jesch, A., Lange, M., Mellado-Vázquez, P., Strecker, T., Landais, D., Ravel, O., Buchmann, N., Roy, J., Gleixner, G. (2019):
Functional composition has stronger impact than species richness on carbon gain and allocation in experimental grasslands
PLOS One **14** (1), e0204715
556. Ross, K., **Heße, F.**, Musuuza, J.L., **Attinger, S.** (2019):
Ensemble and effective dispersion in three-dimensional isotropic fractal media
Stoch. Environ. Res. Risk Assess. **33** (11-12), 2089 - 2107
557. **Rummel, C.D., Escher, B.I.**, Sandblom, O., **Plassmann, M.M.**, Arp, H.P.H., MacLeod, M., **Jahnke, A.** (2019):
Effects of leachates from UV-weathered microplastic in cell-based bioassays
Environ. Sci. Technol. **53** (15), 9214 - 9223
558. Ruttkies, C., Schymanski, E.L., Strehmel, N., Hollender, J., Neumann, S., Williams, A.J., **Krauss, M.** (2019):
Supporting non-target identification by adding hydrogen deuterium exchange MS/MS capabilities to MetFrag
Anal. Bioanal. Chem. **411** (19), 4683 - 4700

559. Saha, M., Berdalet, E., Carotenuto, Y., **Fink, P.**, Harder, T., John, U., Not, F., Pohnert, G., Potin, P., Selander, E., Vyverman, W., Wichard, T., Zupo, V., Steinke, M. (2019): Using chemical language to shape future marine health
Front. Ecol. Environ. **17** (9), 530 - 537
560. **Said, N., Chatzinotas, A., Schmidt, M.** (2019): Have an ion on it: the life-cycle of *Bdellovibrio bacteriovorus* viewed by helium-ion microscopy
Adv. Biosyst. **3** (1), art. 1800250
561. Sajid, M., Syed, J.H., **Iqbal, M.**, Abbas, Z., Hussain, I., Baig, M.A. (2019): Assessing the generation, recycling and disposal practices of electronic/electrical-waste (E-Waste) from major cities in Pakistan
Waste Manage. **84** , 394 - 401
562. Salecker, J., **Dislich, C.**, Wiegand, K., Meyer, K.M., **Pe'er, G.** (2019): Efforts-LGraf: A landscape generator for creating smallholder-driven land-use mosaics
PLOS One **14** (9), e0222949
563. Saleem, H., **Arslan, M.**, Rehman, K., Tahseen, R., Afzal, M. (2019): *Phragmites australis* — a helophytic grass — can establish successful partnership with phenol-degrading bacteria in a floating treatment wetland
Saudi J. Biol. Sci. **26** (6), 1179 - 1186
564. Salk, K.R., **Fink, P.**, Filstrup, C.T., Rose, K.C., Grossart, H.-P. (2019): ASLO activities focus on meeting the needs of early career members
Limnology and Oceanography Bulletin **28** (2), 76 - 78
565. Salthammer, T., **Goss, K.-U.** (2019): Predicting the gas/particle distribution of SVOCs in the indoor environment using poly parameter linear free energy relationships
Environ. Sci. Technol. **53** (5), 2491 - 2499
566. Samani, S., **Geistlinger, H.** (2019): Simulation of channelized gas flow pattern in heterogeneous porous media: A feasibility study of continuum simulation at bench scale
Vadose Zone J. **18** (1), art. 180144
567. **Samaniego, L., Thober, S., Wanders, N., Pan, M., Rakovec, O., Sheffield, J., Wood, E.F., Prudhomme, C., Rees, G., Houghton-Carr, H., Fry, M., Smith, K., Watts, G., Hisdal, H., Estrela, T., Buontempo, C., Marx, A., Kumar, R.** (2019): Hydrological forecasts and projections for improved decision-making in the water sector in Europe
Bull. Amer. Meteorol. Soc. **100** (12), 2451 - 2471

568. Savoy, H., **Heße, F.** (2019):
Dimension reduction for integrating data series in Bayesian inversion of geostatistical models
Stoch. Environ. Res. Risk Assess. **33** (7), 1327 - 1344
569. **Schädler, M., Buscot, F., Klotz, S., Reitz, T., Durka, W., Bumberger, J., Merbach, I., Michalski, S.G., Kirsch, K., Remmler, P., Schulz, E., Auge, H.** (2019):
Investigating the consequences of climate change under different land-use regimes: a novel experimental infrastructure
Ecosphere **10** (3), e02635
570. Schäfer, R.B., **Liess, M., Altenburger, R.**, Filser, J., Hollert, H., Roß-Nickoll, M., Schäffer, A., Scheringer, M. (2019):
Future pesticide risk assessment: narrowing the gap between intention and reality
Environ. Sci. Eur. **31** , art. 21
571. Schattan, P., Köhli, M., **Schrön, M.**, Baroni, G., Oswald, S.E. (2019):
Sensing area-average snow water equivalent with cosmic-ray neutrons: The influence of fractional snow cover
Water Resour. Res. **55** (12), 10796 - 10812
572. Schellhammer, S., Reimann, T., **Walther, M.**, Grischek, T. (2019):
Lehren und Lernen: Bildung im Diskurs
Grundwasser **24** (3), 175 - 176
573. Scherer, C., Radchuk, V., Staubach, C., Müller, S., Blaum, N., **Thulke, H.-H.**, Kramer-Schadt, S. (2019):
Seasonal host life-history processes fuel disease dynamics at different spatial scales
J. Anim. Ecol. **88** (11), 1812 - 1824
574. **Schima, R., Krüger, S., Bumberger, J., Paschen, M., Dietrich, P., Goblirsch, T.** (2019):
Mobile monitoring—open-source based optical sensor system for service-oriented turbidity and dissolved organic matter monitoring
Front. Earth Sci. **7** , art. 184
575. Schiro, G., Müller, T., Verch, G., Sommerfeld, T., Mauch, T., Koch, M., **Grimm, V.**, Müller, M.E.H. (2019):
The distribution of mycotoxins in a heterogeneous wheat field in relation to microclimate, fungal and bacterial abundance
J. Appl. Microbiol. **126** (1), 177 - 190

576. Schleuss, P.-M., Widdig, M., **Heintz-Buschart, A.**, Guhr, A., Martin, S., Kirkman, K., Spohn, M. (2019):
Stoichiometric controls of soil carbon and nitrogen cycling after long-term nitrogen and phosphorus addition in a mesic grassland in South Africa
Soil Biol. Biochem. **135**, 294 - 303
577. Schlüter, M., **Müller, B.**, **Frank, K.** (2019):
The potential of models and modeling for social-ecological systems research: the reference frame ModSES
Ecol. Soc. **24** (1), art. 31
578. **Schlüter, S.**, Eickhorst, T., Mueller, C.W. (2019):
Correlative imaging reveals holistic view of soil microenvironments
Environ. Sci. Technol. **53** (2), 829 - 837
579. **Schlüter, S.**, Zawallich, J., **Vogel, H.-J.**, Dörsch, P. (2019):
Physical constraints for respiration in microbial hotspots in soil and their importance for denitrification
Biogeosciences **16** (18), 3665 - 3678
580. Schmidt, J., Rabiger-Völlmer, J., Werther, L., **Werban, U.**, **Dietrich, P.**, Berg, S., Ettel, P., Linzen, S., Stele, A., Schneider, B., Zielhofer, C. (2019):
3D-modelling of Charlemagne's summit canal (Southern Germany)—Merging remote sensing and geoarchaeological subsurface data
Remote Sens. **11** (9), art. 1111
581. **Schmidt, J.R.**, Vogel, S., Moeller, S., **Kalkhof, S.**, **Schubert, K.**, **von Bergen, M.**, Hempel, U. (2019):
Sulfated hyaluronic acid and dexamethasone possess a synergistic potential in the differentiation of osteoblasts from human bone marrow stromal cells
J. Cell. Biochem. **120** (5), 8706 - 8722
582. Schmidt, R., Ulanova, D., **Wick, L.Y.**, Bode, H.B., Garbeva, P. (2019):
Microbe-driven chemical ecology: past, present and future
ISME J. **13**, 2656 - 2663
583. **Schmidt, S.**, Altenburger, R., Kühnel, D. (2019):
From the air to the water phase: implication for toxicity testing of combustion-derived particles
Biomass Convers. Biorefinery **9** (1), 213 - 225

584. Schmidt, T.S.B., Hayward, M.R., Coelho, L.P., Li, S.S., Costea, P.I., Voigt, A.Y., Wirbel, J., Maistrenko, O.M., Alves, R.J.C., Bergsten, E., de Beaufort, C., Sobhani, I., **Heintz-Buschart, A.**, Sunagawa, S., Zeller, G., Wilmes, P., Bork, P. (2019):
Extensive transmission of microbes along the gastrointestinal tract
eLife **8**, art. e42693
585. **Schubert, M.**, Kopitz, J., **Knöller, K.** (2019):
Improved approach for LSC detection of ^{35}S aiming at its application as tracer for short groundwater residence times
J. Environ. Radioact. **208-209**, art. 106022
586. **Schubert, M.**, **Petermann, E.**, **Stollberg, R.**, Gebel, M., Scholten, J., **Knöller, K.**, Lorz, C., Glück, F., Riemann, K., **Weiß, H.** (2019):
Improved approach for the investigation of submarine groundwater discharge by means of radon mapping and radon mass balancing
Water **11** (4), art. 749
587. Schuldt, A., Ebeling, A., Kunz, M., Staab, M., Guimarães-Steinicke, C., Bachmann, D., Buchmann, N., **Durka, W.**, Fichtner, A., Fornoff, F., Härdtle, W., Hertzog, L.R., Klein, A.-M., **Roscher, C.**, Schaller, J., von Oheimb, G., Weigelt, A., Wirth, C., Weisser, W., Zhang, J., Bruelheide, H., Eisenhauer, N. (2019):
Multiple plant diversity components drive consumer communities across ecosystems
Nat. Commun. **10**, art. 1460
588. **Schulte-Römer, N.** (2019):
Review essay: Research in the dark. Explorations into the societal effects of light and darkness
Nat. Cult. **14** (2), 215 - 227
589. **Schulte-Römer, N.**, Meier, J., Dannemann, E., **Söding, M.** (2019):
Lighting professionals versus light pollution experts? Investigating views on an emerging environmental concern
Sustainability **11** (6), art. 1696
590. **Schulte-Römer, N.**, Meier, J., Söding, Z., Dannemann, E. (2019):
The LED paradox: How light pollution challenges experts to reconsider sustainable lighting
Sustainability **11** (21), art. 6160
591. **Schulte-Römer, N.**, **Söding, M.** (2019):
Routine reporting of environmental risk: The first traces of micropollutants in the German press
Environ. Commun. **13** (8), 1108 - 1127

592. **Schultze, M.**, Brode, E., Benthäus, F.-C., **Rinke, K.** (2019):
Wasserqualität in als Speicher genutzten Tagebaauseen. Water quality in pit lakes used as reservoirs
WasserWirtschaft **109** (5), 38 - 41
593. **Schulz, H.**, Beck, W., **Lausch, A.** (2019):
Atmospheric depositions affect the growth patterns of Scots pines (*Pinus sylvestris L.*)—a long-term cause-effect monitoring study using biomarkers
Environ. Monit. Assess. **191** , art. 159
594. **Schulze, S.**, Zahn, D., Montes, R., Rodil, R., Quintana, J.B., Knepper, T.P., **Reemtsma, T.**, **Berger, U.** (2019):
Occurrence of emerging persistent and mobile organic contaminants in European water samples
Water Res. **153** , 80 - 90
595. **Schulz-Zunkel, C.**, Seele-Dilbat, C., Schrenner, H., Rast, G. (2019):
Wilde Mulde – Revitalisierung und Wirkungsanalyse in Fluss-Auen-Ökosystemen. Wilde Mulde – Revitalisation and scientific monitoring in river-floodplain ecosystems
WasserWirtschaft **109** (11), 54 - 59
596. **Schüttler, A.**, **Altenburger, R.**, Ammar, M., **Bader-Blukott, M.**, Jakobs, G., Knapp, J., Krüger, J., Reiche, K., Wu, G.-M., Busch, W. (2019):
Map and model—moving from observation to prediction in toxicogenomics
GigaScience **8** (6), giz057
597. Scibona, A., Nizzoli, D., **Cristini, D.**, Longhi, D., Bolpagni, R., Viaroli, P. (2019):
Silica storage, fluxes, and nutrient stoichiometry in different benthic primary producer communities in the littoral zone of a deep subalpine lake (Lake Iseo, Italy)
Water **11** (10), art. 2140
598. Semerád, J., **Moeder, M.**, Filip, J., Pivokonský, M., Filipová, A., Cajthaml, T. (2019):
Oxidative stress in microbes after exposure to iron nanoparticles: analysis of aldehydes as oxidative damage products of lipids and proteins
Environ. Sci. Pollut. Res. **26** (32), 33670 - 33682
599. **Sendek, A.**, Karakoç, C., Wagg, C., Domínguez-Begines, J., Martucci do Couto, G., van der Heijden, M.G.A., Naz, A.A., Lochner, A., **Chatzinotas, A.**, **Klotz, S.**, Gómez-Aparicio, L., Eisenhauer, N. (2019):
Drought modulates interactions between arbuscular mycorrhizal fungal diversity and barley genotype diversity
Sci. Rep. **9** , art. 9650

600. Serra, H., Scholze, M., **Altenburger, R.**, Busch, W., Budzinski, H., Brion, F., Aït-Aïssa, S. (2019):
Combined effects of environmental xeno-estrogens within multi-component mixtures:
Comparison of in vitro human- and zebrafish-based estrogenicity bioassays
Chemosphere **227** , 334 - 344
601. **Settele, J.** (2019):
Bestandsentwicklungen und Schutz von Insekten : Analysen und Aussagen des Weltbiodiversitätsrats (IPBES). Insect trends and conservation : Analyses and conclusions of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)
Nat. Landschaft **94** (6/7), 299 - 303
602. **Settele, J.** (2019):
Insektenrückgang, Insektenschwund, Insektensterben?
Biologie in unserer Zeit **49** (4), 231 - 231
603. Seviour, T., Derlon, N., Dueholm, M.S., Flemming, H.-C., Girbal-Neuhauser, E., Horn, H., Kjelleberg, S., van Loosdrecht, M.C.M., Lotti, T., Malpei, M.F., Nerenberg, R., **Neu, T.R.**, Paul, E., Yu, H., Lin, Y. (2019):
Extracellular polymeric substances of biofilms: Suffering from an identity crisis
Water Res. **151** , 1 - 7
604. Shahid, M.J., **Arslan, M.**, Siddique, M., Ali, S., Tahseen, R., Afzal, M. (2019):
Potentialities of floating wetlands for the treatment of polluted water of river Ravi, Pakistan
Ecol. Eng. **133** , 167 - 176
605. **Shahid, N.**, Liess, M., Knillmann, S. (2019):
Environmental stress increases synergistic effects of pesticide mixtures on *Daphnia magna*
Environ. Sci. Technol. **53** (21), 12586 - 12593
606. **Shao, Y.**, Chen, Z., Hollert, H., Zhou, S., Deutschmann, B., Seiler, T.-B. (2019):
Toxicity of 10 organic micropollutants and their mixture: Implications for aquatic risk assessment
Sci. Total Environ. **666** , 1273 - 1282
607. **Shao, Y.**, Hollert, H., Tarcai, Z., Deutschmann, B., Seiler, T.-B. (2019):
Integrating bioassays, chemical analysis and *in silico* techniques to identify genotoxins in surface water
Sci. Total Environ. **650** (Part 2), 3084 - 3092

608. **Shao, Y.**, Xiao, H., Di Paolo, C., Deutschmann, B., **Brack, W.**, Hollert, H., Seiler, T.B. (2019):
Integrated zebrafish-based tests as an investigation strategy for water quality assessment
Water Res. **150**, 252 - 260
609. **Shatwell, T.**, Thiery, W., Kirillin, G. (2019):
Future projections of temperature and mixing regime of European temperate lakes
Hydrol. Earth Syst. Sci. **23** (3), 1533 - 1551
610. Shentsis, I., Inbar, N., Rosenthal, E., **Magri, F.** (2019):
Assessing water consumption and aquifer discharge through springs based on the joint use of rain and flow data in the Yarmouk River Basin
Environ. Earth Sci. **78** (12), art. 368
611. Shestakova, T.A., Voltas, J., Saurer, M., Berninger, F., Esper, J., Andreu-Hayles, L., Daux, V., Helle, G., Leuenberger, M., Loader, N.J., Masson-Delmotte, V., Saracino, A., Waterhouse, J.S., Schleser, G.H., Bednarz, Z., **Boettger, T.**, Dorado-Liñán, I., Filot, M., Frank, D., Grabner, M., **Haupt, M.**, Hilasvuori, E., Jungner, H., Kalela-Brundin, M., Krąpiec, M., Marah, H., Pawełczyk, S., Pazdur, A., Pierre, M., Planells, O., Pukienė, R., Reynolds-Henne, C.E., Rinne-Garmston, K.T., Rita, A., Sonninen, E., Stiévenard, M., Switsur, V.R., Szychowska-Krąpiec, E., Szymbaszek, M., Todaro, L., Treydte, K., Vitas, A., Weigl, M., Wimmer, R., Gutiérrez, E. (2019):
Spatio-temporal patterns of tree growth as related to carbon isotope fractionation in European forests under changing climate
Glob. Ecol. Biogeogr. **28** (9), 1295 - 1309
612. **Shrestha, P.K.**, Shrestha, S., Ninsawat, S. (2019):
How significant is sub-daily variability of rainfall for hydrological modelling of floods?
A satellite based approach to sub-daily downscaling of gauged rainfall
Meteorol. Appl. **26** (2), 288 - 299
613. **Siebert, C.**, Möller, P., Magri, F., Shalev, E., Rosenthal, E., Al-Raggad, M., **Rödiger, T.** (2019):
Applying rare earth elements, uranium, and $^{87}\text{Sr}/^{86}\text{Sr}$ to disentangle structurally forced confluence of regional groundwater resources: The case of the Lower Yarmouk Gorge
Geofluids **2019**, art. 6727681
614. Siebert, J., Sünnemann, M., **Auge, H.**, Berger, S., Cesarz, S., Ciobanu, M., Guerrero-Ramírez, N.R., Eisenhauer, N. (2019):
The effects of drought and nutrient addition on soil organisms vary across taxonomic groups, but are constant across seasons
Sci. Rep. **9**, art. 639

615. Sietz, D., Frey, U., Roggero, M., Gong, Y., Magliocca, N., Tan, R., Janssen, P., **Václavík, T.** (2019):
Archetype analysis in sustainability research: Methodological portfolio and analytical frontiers
Ecol. Soc. **24** (3), art. 34
616. **Silveira Melo, D.**, Gontijo, E.S.J., **Frascareli, D.**, Simonetti, V.C., Machado, L.S., Barth, J.A.C., Moschini-Carlos, V., Pompêo, M.L., Rosa, A.H., **Friese, K.** (2019):
Self-organizing maps for evaluation of biogeochemical processes and temporal variations in water quality of subtropical reservoirs
Water Resour. Res. **55** (12), 10268 - 10281
617. Singh, R., **Kumar, R.** (2019):
Climate versus demographic controls on water availability across India at 1.5 °C, 2.0 °C and 3.0 °C global warming levels
Glob. Planet. Change **177** , 1 - 9
618. Sitas, N., Harmáčková, Z.V., Anticamara, J.A., Arneth, A., Badola, R., Biggs, R., Blanchard, R., Brotons, L., Cantele, M., Coetzer, K., DasGupta, R., den Belder, E., Ghosh, S., Guisan, A., Gundimeda, H., Hamann, M., Harrison, P.A., Hashimoto, S., **Hauck, J.**, Klatt, B., Kok, K., Krug, R.M., Niamir, A., O'Farrell, P.J., Okayasu, S., Palomo, I., Pereira, L.M., Riordan, P., Santos-Martín, F., Selomane, O., Shin, Y., Valle Tobar, M. (2019):
Exploring the usefulness of scenario archetypes in science-policy processes: Experience across IPBES assessments
Ecol. Soc. **24** (3), art. 35
619. Slobodnik, J., Hollender, J., **Schulze, T.**, Schymanski, E.L., **Brack, W.** (2019):
Establish data infrastructure to compile and exchange environmental screening data on a European scale
Environ. Sci. Eur. **31** , art. 65
620. Soofi, M., Ghoddousi, A., Zeppenfeld, T., Shokri, S., Soufi, M., **Egli, L.**, Jafari, A., Ahmadpour, M., Qashqaei, A., Ghadirian, T., Filla, M., Kiabi, B., Balkenhol, N., Waltert, M., Khorozyan, I. (2019):
Assessing the relationship between illegal hunting of ungulates, wild prey occurrence and livestock depredation rate by large carnivores
J. Appl. Ecol. **56** (2), 365 - 374
621. **Spangenberg, J.H.** (2019):
Scenarios and indicators for sustainable development: towards a critical assessment of achievements and challenges
Sustainability **11** (4), art. 942

622. Spranger, T., van Pinxteren, D., **Reemtsma, T.**, **Lechtenfeld, O.J.**, Herrmann, H. (2019):
2D liquid chromatographic fractionation with ultra-high resolution MS analysis resolves a
vast molecular diversity of tropospheric particle organics
Environ. Sci. Technol. **53** (19), 11353 - 11363
623. Stanstrup, J., Broeckling, C.D., Helmus, R., Hoffmann, N., Mathé, E., Naake, T.,
Nicolotti, L., Peters, K., Rainer, J., Salek, R.M., **Schulze, T.**, Schymanski, E.L., Stravs,
M.A., Thévenot, E.A., Treutler, H., Weber, R.J.M., Willighagen, E., Witting, M.,
Neumann, S. (2019):
The metaRbolomics Toolbox in Bioconductor and beyond
Metabolites **9** (10), art. 200
624. Starke, R., **Jehmlich, N.**, Alfaro, T., Dohnalkova, A., Capek, P., Bell, S.L., Hofmockel,
K.S. (2019):
Incomplete cell disruption of resistant microbes
Sci. Rep. **9** , art. 5618
625. Starke, R., **Jehmlich, N.**, Bastida, F. (2019):
Using proteins to study how microbes contribute to soil ecosystem services: The current
state and future perspectives of soil metaproteomics
J. Proteomics **198** , 50 - 58
626. **Stefanova, A.**, Hesse, C., Krysanova, V., **Volk, M.** (2019):
Assessment of socio-economic and climate change impacts on water resources in four
European lagoon catchments
Environ. Manage. **64** (6), 701 - 720
627. Stoeckl, L., **Walther, M.**, Morgan, L.K. (2019):
Physical and numerical modelling of post-pumping seawater intrusion
Geofluids **2019** , art. 7191370
628. **Strauch, M.**, **Cord, A.F.**, **Pätzold, C.**, **Lautenbach, S.**, **Kaim, A.**, **Schweitzer, C.**,
Seppelt, R., **Volk, M.** (2019):
Constraints in multi-objective optimization of land use allocation – Repair or penalize?
Environ. Modell. Softw. **118** , 241 - 251
629. **Strunz, S.** (2019):
Nachhaltigkeit, liberale Ironie und der Relativismus-Vorwurf. Sustainability, liberal irony
and the accusations of relativism. Reaktion auf F. Ekardt in GAIA 27/3 (2018):
Nachhaltigkeitsforschung und Erkenntnistheorie. Auslassungen der
Transformationsdebatte
GAIA **28** (1), 9 - 12

630. **Strunz, S., Marselle, M., Schröter, M.** (2019):
Leaving the “sustainability or collapse” narrative behind
Sustain. Sci. **14** (6), 1717 - 1728
631. Sun, C., Bian, Y., **Zhou, T.**, Pan, J. (2019):
Using of multi-source and multi-temporal remote sensing data improves crop-type
mapping in the subtropical agriculture region
Sensors **19** (10), art. 2401
632. Sun, Q., Zheng, T., Zheng, X., Chang, Q., **Walther, M.** (2019):
Influence of a subsurface cut-off wall on nitrate contamination in an unconfined aquifer
J. Hydrol. **575** , 234 - 243
633. Sun, Y., Bao, W., Zhao, L., **Yang, X.**, Ding, B., Wang, H., Hu, L., Jiang, P. (2019):
An improved friction calculation for water level and flow velocity simulation
Hydrol. Res. **50** (5), 1397 - 1409
634. Tahseen, R., **Arslan, M.**, Iqbal, S., Khalid, Z.M., Afzal, M. (2019):
Enhanced degradation of hydrocarbons by gamma ray induced mutant strain
of *Pseudomonas putida*
Biotechnol. Lett. **41** (3), 391 - 399
635. Tallis, H., Kreis, K., Olander, L., Ringler, C., Ameyaw, D., Borsuk, M.E.,
Fletschner, D., Game, E., Gilligan, D.O., Jeuland, M., Kennedy, G., Masuda,
Y.J., Mehta, S., Miller, N., Parker, M., Pollino, C., Rajaratnam, J., Wilkie, D.,
Zhang, W., Ahmed, S., Ajayi, O.C., Alderman, H., Arhonditsis, G., Azevedo, I.,
Badola, R., Bailis, R., Balvanera, P., Barbour, E., Bardini, M., Barton, D.N.,
Baumgartner, J., Benton, T.G., Bobrow, E., Bossio, D., Bostrom, A., Braimoh,
A., Brondizio, E., Brown, J., Bryant, B.P., Calder, R.S.D., Chaplin-Kramer, B.,
Cullen, A., DeMello, N., Dickinson, K.L., Ebi, K.L., Eves, H.E., Fanzo, J.,
Ferraro, P.J., Fisher, B., Frongillo, E.A., Galford, G., Garrity, D., Gatere, L.,
Grieshop, A.P., Grigg, N.J., Groves, C., Gugerty, M.K., Hamm, M., Hou, X.,
Huang, S., Imhoff, M., Jack, D., Jones, A.D., Kelsey, R., Kothari, M., Kumar,
R., Lachat, C., Larsen, A., Lawrence, M., DeClerck, F., Levin, P.S., Mabaya,
E., MacDonald Gibson, J., McDonald, R.I., Mace, G., Maertens, R., Mangale,
D.I., Martino, R., Mason, S., Mehta, L., Meinzen-Dick, R., Merz, B., Msangi,
S., Murray, G., Murray, K.A., Naude, C.E., Newlands, N.K., Nkonya, E.,
Peterman, A., Petruney, T., Possingham, H., Puri, J., Remans, R., Remlinger,
L., Ricketts, T.H., Reta, B., Robinson, B.E., Roe, D., Rosenthal, J., Shen, G.,
Shindell, D., Stewart-Koster, B., Sunderland, T., Sutherland, W.J., Tewksbury,
J., Wasser, H., Wear, S., Webb, C., Whittington, D., Wilkerson, M., **Wittmer, H.**, Wood,
B.D.K., Wood, S., Wu, J., Yadama, G., Zobrist, S. (2019):
Aligning evidence generation and use across health, development, and environment
Curr. Opin. Environ. Sustain. **39** , 81 - 93

636. Tara, N., **Arslan, M.**, Hussain, Z., Iqbal, M., Khan, Q.M., Afzal, M. (2019):
On-site performance of floating treatment wetland macrocosms augmented with
dye-degrading bacteria for the remediation of textile industry wastewater
J. Clean Prod. **217**, 541 - 548
637. **Tarasova, L.**, **Merz, R.**, Kiss, A., **Basso, S.**, Blöschl, G., Merz, B., Viglione, A., Plötner,
S., Guse, B., Schumann, A., Fischer, S., Ahrens, B., Anwar, F., Bárdossy, A., Bühler, P.,
Haberlandt, U., Kreibich, H., Krug, A., Lun, D., Müller-Thomy, H., Pidoto, R., Primo, C.,
Seidel, J., Vorogushyn, S., Wietzke, L. (2019):
Causative classification of river flood events
Wiley Interdiscip. Rev.-Water **6** (4), e1353
638. Tartally, A., Thomas, J.A., **Anton, C.**, Balletto, E., Barbero, F., Bonelli, S., Bräu,
M., Casacci, L.P., Csősz, S., Czekes, Z., Dolek, M., Dziekańska, I., Elmes, G.,
Fürst, M.A., **Glinka, U.**, Hochberg, M.E., Höttlinger, H., Hula, V., Maes, D.,
Munguira, M.L., **Musche, M.**, Stadel Nielsen, P., Nowicki, P., Oliveira, P.S.,
Peregovits, L., **Ritter, S.**, Schlick-Steiner, B.C., **Settele, J.**, Sieleznew, M., Simcox, D.J.,
Stankiewicz, A.M., Steiner, F.M., Švitra, G., Ugelvig, L.V., Van Dyck, H., Varga, Z.,
Witek, M., Woyciechowski, M., Wynhoff, I., Nash, D.R. (2019):
Patterns of host use by brood parasitic *Maculinea* butterflies across Europe
Philos. Trans. R. Soc. B-Biol. Sci. **374**, art. 20180202
639. Taubert, M., Grob, C., Crombie, A., Howat, A.M., Burns, O.J., Weber, M.,
Lott, C., Kaster, A.-K., Vollmers, J., **Jehmlich, N.**, **von Bergen, M.**, Chen, Y., Murrell,
J.C. (2019):
Communal metabolism by *Methylococcaceae* and *Methylophilaceae* is driving rapid
aerobic methane oxidation in sediments of a shallow seep near Elba, Italy
Environ. Microbiol. **21** (10), 3780 - 3795
640. Tegner Anker, H., Backes, C.W., Baaner, L., Keessen, A.M., **Möckel, S.** (2019):
Natura 2000 and the regulation of agricultural ammonia emissions
JEEPL **16** (4), 340 - 371
641. **Teixidó, E.**, Barenys, M., Piqué, E., Llobet, J.M., Gómez-Catalán, J. (2019):
Cardiovascular effects of PCB 126 (3,3',4,4',5-pentachlorobiphenyl) in zebrafish embryos
and impact of co-exposure to redox modulating chemicals
Int. J. Mol. Sci. **20** (5), art. 1065
642. **Teixidó, E.**, Kießling, T.R., Krupp, E., Quevedo, C., Muriana, A., **Scholz, S.** (2019):
Automated morphological feature assessment for zebrafish embryo developmental
toxicity screens
Toxicol. Sci. **167** (2), 438 - 449

643. ter Steege, H., Henkel, T.W., Helal, N., Marimon, B.S., Marimon-Junior, B.H., **Huth, A.**, **Groeneveld, J.**, Sabatier, D., et al. (2019):
Rarity of monodominance in hyperdiverse Amazonian forests
Sci. Rep. **9**, art. 13822
644. Thakur, M.P., Quast, V., van Dam, N.M., Eisenhauer, N., **Roscher, C.**, Biere, A., Martinez-Medina, A. (2019):
Interactions between functionally diverse fungal mutualists inconsistently affect plant performance and competition
Oikos **128** (8), 1136 - 1146
645. Thieme, L., **Graeber, D.**, Hofmann, D., Bischoff, S., Schwarz, M.T., Steffen, B., Meyer, U.-N., Kaupenjohann, M., Wilcke, W., Michalzik, B., Siemens, J. (2019):
Dissolved organic matter characteristics of deciduous and coniferous forests with variable management: different at the source, aligned in the soil
Biogeosciences **16** (7), 1411 - 1432
646. **Thober, S.**, Cuntz, M., **Kelbling, M.**, **Kumar, R.**, Mai, J., **Samaniego, L.** (2019):
The multiscale routing model mRM v1.0: simple river routing at resolutions from 1 to 50 km
Geosci. Model Dev. **12** (6), 2501 - 2521
647. Thomas, H.J.D., Myers-Smith, I.H., Bjorkman, A.D., Elmendorf, S.C., Blok, D., Cornelissen, J.H.C., Forbes, B.C., Hollister, R.D., Normand, S., Prevéy, J.S., Rixen, C., Schaepman-Strub, G., Wilmking, M., Wipf, S., Cornwell, W.K., Kattge, J., Goetz, S.J., Guay, K.C., Alatalo, J.M., Anadon-Rosell, A., Angers-Blondin, S., Berner, L.T., Björk, R.G., Buchwal, A., Buras, A., Carbognani, M., Christie, K., Siegwart Collier, L., Cooper, E.J., **Eskelinen, A.**, Frei, E.R., Grau, O., Grogan, P., Hallinger, M., Heijmans, M.M.P.D., Hermanutz, L., Hudson, J.M.G., Hülber, K., Iturrate-Garcia, M., Iversen, C.M., Jaroszynska, F., Johnstone, J.F., Kaarlejärvi, E., Kulonen, A., Lamarque, L.J., Lévesque, E., Little, C.J., Michelsen, A., Milbau, A., Nabe-Nielsen, J., Nielsen, S.S., Ninot, J.M., Oberbauer, S.F., Olofsson, J., Onipchenko, V.G., Petraglia, A., Rumpf, S.B., Semenchuk, P.R., Soudzilovskaia, N.A., Spasojevic, M.J., Speed, J.D.M., Tape, K.D., te Beest, M., Tomaselli, M., Trant, A., Treier, U.A., Venn, S., Vowles, T., Weijers, S., Zamin, T., Atkin, O.K., Bahn, M., Blonder, B., Campetella, G., Cerabolini, B.E.L., Chapin III, F.S., Dainese, M., de Vries, F.T., Díaz, S., Green, W., Jackson, R.B., Manning, P., Niinemets, Ü., Ozinga, W.A., Peñuelas, J., Reich, P.B., Schamp, B., Sheremetev, S., van Bodegom, P.M. (2019):
Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome
Glob. Ecol. Biogeogr. **28** (2), 78 - 95
648. **Thronicker, I.**, Klinger, T. (2019):
Interest into travel-related interventions among urban movers and nonmovers
Travel Behav. Soc. **16**, 88 - 98

649. **Thullner, M.**, Regnier, P. (2019):
Microbial controls on the biogeochemical dynamics in the subsurface
Rev. Mineral. Geochem. **85** (1), 265 - 302
650. Tian, P., Liu, S., Wang, Q., Sun, T., **Blagodatskaya, E.** (2019):
Organic N deposition favours soil C sequestration by decreasing priming effect
Plant Soil **445** (1-2), 439 - 451
651. **Titeux, N.**, Brotons, L., **Settele, J.** (2019):
IPBES promotes integration of multiple threats to biodiversity. Letter
Trends Ecol. Evol. **34** (11), 969 - 970
652. **Tittel, J.**, Hüls, M., **Koschorreck, M.** (2019):
Terrestrial vegetation drives methane production in the sediments of two German reservoirs
Sci. Rep. **9** , art. 15944
653. Tkadlec, E., **Václavík, T.**, Široký, P. (2019):
Rodent host abundance and climate variability as predictors of tickborne disease risk 1 year in advance
Emerg. Infect. Dis. **25** (9), 1738 - 1741
654. Tokarski, D., Šimečková, J., Kučerík, J., Kalbitz, K., Demyan, M.S., **Merbach, I.**, Barkusky, D., Ruehlmann, J., Siewert, C. (2019):
Detectability of degradable organic matter in agricultural soils by thermogravimetry
J. Plant Nutr. Soil Sci. **182** (5), 729 - 740
655. Torgonskaya, M.L., Zyakun, A.M., Trotsenko, Y.A., Laurinavichius, K.S., **Kümmel, S.**, Vuilleumier, S., **Richnow, H.H.** (2019):
Individual stages of bacterial dichloromethane degradation mapped by stable carbon and chlorine isotope analysis
J. Environ. Sci. **78** , 147 - 160

656. Townsend Peterson, A., Anderson, R.P., Beger, M., Bolliger, J., Brotons, L., Burridge, C.P., Cobos, M.E., Cuervo-Robayo, A.P., Di Minin, E., Diez, J., Elith, J., Embling, C.B., Escobar, L.E., Essl, F., Feeley, K.J., Hawkes, L., Jiménez-García, D., Jimenez, L., Green, D.M., Knop, E., **Kühn, I.**, Lahoz-Monfort, J.J., Lira-Noriega, A., Lobo, J.M., Loyola, R., Mac Nally, R., Machado-Stredel, F., Martínez-Meyer, E., McCarthy, M., Merow, C., Nori, J., Nuñez-Penichet, C., Osorio-Olvera, L., Pyšek, P., Rejmánek, M., Ricciardi, A., Robertson, M., Rojas Soto, O., Romero-Alvarez, D., Roura-Pascual, N., Santini, L., Schoeman, D.S., Schröder, B., Soberon, J., Strubbe, D., Thuiller, W., Traveset, A., Treml, E.A., **Václavík, T.**, Varela, S., Watson, J.E.M., Wiersma, Y., Wintle, B., Yanez-Arenas, C., Zurell, D. (2019):
Open access solutions for biodiversity journals: Do not replace one problem with another
Divers. Distrib. **25** (1), 5 - 8
657. Trommer, G., Lorenz, P., Lentz, A., **Fink, P.**, Stibor, H. (2019):
Nitrogen enrichment leads to changing fatty acid composition of phytoplankton and negatively affects zooplankton in a natural lake community
Sci. Rep. **9** , art. 16805
658. **Türkowsky, D., Lohmann, P., Mühlenbrink, M., Schubert, T., Adrian, L., Goris, T., Jehmlich, N., von Bergen, M.** (2019):
Thermal proteome profiling allows quantitative assessment of interactions between tetrachloroethene reductive dehalogenase and trichloroethene
J. Proteomics **192** , 10 - 17
659. **Ueberham, M., Schlink, U., Dijst, M., Weiland, S.** (2019):
Cyclists' multiple environmental urban exposures—comparing subjective and objective measurements
Sustainability **11** (5), art. 1412
660. Ütkür, F.Ö., **Schmid, A., Bühler, B.** (2019):
Anaerobic C-H oxyfunctionalization: Coupling of nitrate reduction and quinoline hydroxylation in recombinant *Pseudomonas putida*
Biotechnol. J. **14** (8), art. 1800615
661. **Utom, A.U., Werban, U., Leven, C., Müller, C., Dietrich, P.** (2019):
Adaptive observation-based subsurface conceptual site modeling framework combining interdisciplinary methodologies: a case study on advancing the understanding of a groundwater nitrate plume occurrence
Environ. Sci. Pollut. Res. **26** (16), 15754 - 15766

662. van der Jagt, A.P.N., Smith, M., Ambrose-Oji, B., Konijnendijk, C.C., Giannico, V., **Haase, D.**, Laforteza, R., Nastran, M., Pintar, M., Železníkář, Š., Cvejić, R. (2019): Co-creating urban green infrastructure connecting people and nature: A guiding framework and approach
J. Environ. Manage. **233**, 757 - 767
663. **van der Sande, M.T.**, Poorter, L., Schnitzer, S.A., Engelbrecht, B.M.J., Markesteijn, L. (2019): The hydraulic efficiency–safety trade-off differs between lianas and trees
Ecology **100** (5), e02666
664. van Gils, J., Posthuma, L., Cousins, I.T., Lindim, C., de Zwart, D., Bunke, D., Kutsarova, S., **Müller, C.**, Munthe, J., Slobodník, J., **Brack, W.** (2019): The European Collaborative Project SOLUTIONS developed models to provide diagnostic and prognostic capacity and fill data gaps for chemicals of emerging concern
Environ. Sci. Eur. **31**, art. 72
665. van Pinxteren, M., Fomba, K.W., van Pinxteren, D., Triesch, N., Hoffmann, E.H., Cree, C.H.L., Fitzsimons, M.F., **von Tümpling, W.**, Herrmann, H. (2019): Aliphatic amines at the Cape Verde Atmospheric Observatory: Abundance, origins and sea-air fluxes
Atmos. Environ. **203**, 183 - 195
666. **Švara, V.**, Norf, H., **Luckenbach, T.**, **Brack, W.**, **Michalski, S.G.** (2019): Isolation and characterization of eleven novel microsatellite markers for fine-scale population genetic analyses of *Gammarus pulex* (Crustacea: Amphipoda)
Mol. Biol. Rep. **46** (6), 6609 - 6615
667. **Vásquez Piñeros, M.A.**, **Martínez-Lavanchy, P.M.**, **Schmidt, K.**, **Mardones, M.**, **Heipieper, H.J.** (2019): Changes in bacterial diversity and catabolic gene abundance during the removal of dimethylphenol isomers in laboratory scale constructed wetlands
Appl. Microbiol. Biotechnol. **103** (1), 505 - 517
668. Vernet, M., Geibert, W., Hoppema, M., Brown, P.J., Haas, C., Hellmer, H.H., Jokat, W., Jullion, L., Mazloff, M., Bakker, D.C.E., Brearley, J.A., Croot, P., Hattermann, T., Hauck, J., Hillenbrand, C.-D., Hoppe, C.J.M., Huhn, O., Koch, B.P., **Lechtenfeld, O.J.**, Meredith, M.P., Naveira Garabato, A.C., Nöthig, E.-M., Peeken, I., Rutgers van der Loeff, M.M., Schmidtko, S., Schröder, M., Strass, V.H., Torres-Valdés, S., Verdy, A. (2019): The Weddell Gyre, Southern Ocean: present knowledge and future challenges
Rev. Geophys. **57** (3), 623 - 708

669. Vicente, J., Apollonio, M., Blanco-Aguiar, J.A., Borowik, T., Brivio, F., Casaer, J., Croft, S., Ericsson, G., Ferroglio, E., Gavier-Widen, D., Gortázar, C., Jansen, P.A., Keuling, O., Kowalczyk, R., Petrovic, K., Plhal, R., Podgórska, T., Sange, M., Scandura, M., Schmidt, K., Smith, G.C., Soriguer, R., **Thulke, H.-H.**, Zanet, S., Acevedo, P. (2019):
Science-based wildlife disease response
Science **364** (6444), 943 - 944
670. Vicente, J.R., Kueffer, C., Richardson, D.M., Vaz, A.S., Cabral, J.A., Hui, C., Araújo, M.B., **Kühn, I.**, Kull, C.A., Verburg, P.H., Marchante, E., Honrado, J.P. (2019): Different environmental drivers of alien tree invasion affect different life-stages and operate at different spatial scales
For. Ecol. Manage. **433** , 263 - 275
671. **Vienken, T., Kreck, M., Dietrich, P.** (2019):
Monitoring the impact of intensive shallow geothermal energy use on groundwater temperatures in a residential neighborhood
Geotherm. Energy **7** , art. 8
672. Villeneuve, D.L., Coady, K., **Escher, B.I.**, Mihaich, E., Murphy, C., Schlekat, T., Garcia-Reyero, N. (2019):
High-throughput screening and environmental risk assessment: State of the science and emerging applications
Environ. Toxicol. Chem. **38** (1), 12 - 26
673. Visser-Quinn, A., Beevers, L., Collet, L., Formetta, G., Smith, K., Wanders, N., **Thober, S.**, Pan, M., **Kumar, R.** (2019):
Spatio-temporal analysis of compound hydro-hazard extremes across the UK
Adv. Water Resour. **130** , 77 - 90
674. **Vogel, H.-J.** (2019):
Scale issues in soil hydrology
Vadose Zone J. **18** (1), art. 190001
675. **Vogel, H.-J.**, Eberhardt, E., **Franko, U.**, Lang, B., **Ließ, M.**, **Weller, U.**, Wiesmeier, M., **Wollschläger, U.** (2019):
Quantitative evaluation of soil functions: potential and state
Front. Environ. Sci. **7** , art. 164
676. **Vogel, M., Georgi, A., Kopinke, F.-D., Mackenzie, K.** (2019):
Sulfidation of ZVI/AC composite leads to highly corrosion-resistant nanoremediation particles with extended life-time
Sci. Total Environ. **665** , 235 - 245

677. **Vogel, M., Kopinke, F.-D., Mackenzie, K.** (2019):
Acceleration of microiron-based dechlorination in water by contact with fibrous activated carbon
Sci. Total Environ. **660**, 1274 - 1282
678. Volke, V., **Knapp, S.**, Roloff, A. (2019):
Survey of *Hymenoscyphus fraxineus* in a central European urban area and exploration of its possible environmental drivers
Urban For. Urban Green. **40**, 165 - 173
679. Vollberg, F., **Walther, M.**, Gärdes, A., Moosdorf, N. (2019):
Modeling the potential of submarine groundwater discharge to facilitate growth of *Vibrio cholerae* bacteria
Hydrology **6** (2), art. 39
680. Völlmer, J., Zielhofer, C., **Hausmann, J.**, Dietrich, P., Werban, U., Schmidt, J., Werther, L., Berg, S. (2019):
Minimalinvasive Direct-push-Erkundung in der Feuchtboden(geo)archäologie am Beispiel des Karlsgrabens (Fossa Carolina). Minimally invasive direct push sensing investigation for wetland (Geo)archaeology: the example of the Fossa Carolina. Études peu invasives en direct-push des milieux humides en (géo)archéologie à l'exemple de la Fosse Caroline
Archäologisches Korrespondenzblatt **48** (4), 577 - 593
681. Volmer, J., **Lindmeyer, M.**, Seipp, J., **Schmid, A.**, Bühler, B. (2019):
Constitutively solvent-tolerant *Pseudomonas taiwanensis* VLB120ΔCΔttgV supports particularly high styrene epoxidation activities when grown under glucose excess conditions
Biotechnol. Bioeng. **116** (5), 1089 - 1101
682. von Döhren, P., **Haase, D.** (2019):
Risk assessment concerning urban ecosystem disservices: The example of street trees in Berlin, Germany
Ecosyst. Serv. **40**, art. 101031
683. Vystavna, Y., Schmidt, S.I., Diadin, D., Rossi, P.M., Vergeles, Y., Erostate, M., Yermakovych, I., Yakovlev, V., **Knöller, K.**, Vadillo, I. (2019):
Multi-tracing of recharge seasonality and contamination in groundwater: A tool for urban water resource management
Water Res. **161**, 413 - 422
684. Wagg, C., Barry, K.E., O'Brien, M.J., McKenzie-Gopsill, A., **Roscher, C.**, Eisenhauer, N., Schmid, B. (2019):
Not even wrong: Comment by Wagg et al.
Ecology **100** (10), e02805

685. **Wagner, S., Klöckner, P., Stier, B., Römer, M., Seiwert, B., Reemtsma, T., Schmidt, C.** (2019):
Relationship between discharge and river plastic concentrations in a rural and an urban catchment
Environ. Sci. Technol. **53** (17), 10082 - 10091
686. **Wagner, S., Reemtsma, T.** (2019):
Things we know and don't know about nanoplastic in the environment
Nat. Nanotechnol. **14** (4), 300 - 303
687. Wahla, A.Q., Iqbal, S., Anwar, S., Firdous, S., **Müller, J.A.** (2019):
Optimizing the metribuzin degrading potential of a novel bacterial consortium based on Taguchi design of experiment
J. Hazard. Mater. **366**, 1 - 9
688. Wanders, N., **Thober, S., Kumar, R., Pan, M., Sheffield, J., Samaniego, L., Wood, E.F.** (2019):
Development and evaluation of a Pan-European multi-model seasonal hydrological forecasting system
J. Hydrometeorol. **20** (1), 99 - 115
689. **Wang, J., Pauleit, S., Banzhaf, E.** (2019):
An integrated indicator framework for the assessment of multifunctional green infrastructure—Exemplified in a European city
Remote Sens. **11** (16), art. 1869
690. **Wang, J., Xu, C., Pauleit, S., Kindler, A., Banzhaf, E.** (2019):
Spatial patterns of urban green infrastructure for equity: A novel exploration
J. Clean Prod. **238**, art. 117858
691. Wang, M.-Q., Li, Y., Chesters, D., Anttonen, P., Bruelheide, B., Chen, J.-T., **Durka, W.**, Guo, P.-F., Härdtle, W., Ma, K., **Michalski, S.G.**, Schmid, B., von Oheimb, G., Wu, C.-S., Zhang, N.-L., Zhou, Q.-S., Schuldt, A., Zhu, C.-D. (2019):
Multiple components of plant diversity loss determine herbivore phylogenetic diversity in a subtropical forest experiment
J. Ecol. **107** (6), 2697 - 2712
692. Wang, X., Li, H., Zhang, Y., Qu, W., **Schubert, M.** (2019):
Submarine groundwater discharge revealed by ^{222}Rn : comparison of two continuous on-site ^{222}Rn -in-water measurement methods
Hydrogeol. J. **27** (5), 1879 - 1887

693. Ward, A.S., **Kurz, M.J.**, Schmadel, N.M., Knapp, J.L.A., Blaen, P.J., Harman, C.J., Drummond, J.D., Hannah, D.M., Krause, S., Li, A., Marti, E., Milner, A., Miller, M., Neil, K., Plont, S., Packman, A.I., Wisnoski, N.I., Wondzell, S.M., Zarnetske, J.P. (2019): Solute transport and transformation in an intermittent, headwater mountain stream with diurnal discharge fluctuations
Water **11** (11), art. 2208
694. Ward, A.S., Wondzell, S.M., Schmadel, N.M., Herzog, S., Zarnetske, J.P., Baranov, V., Blaen, P.J., Brekenfeld, N., Chu, R., Derelle, R., Drummond, J., **Fleckenstein, J.H.**, Garayburu-Caruso, V., Graham, E., Hannah, D., Harman, C.J., Hixson, J., Knapp, J.L.A., Krause, S., **Kurz, M.J.**, Lewandowski, J., Li, A., Martí, E., Miller, M., Milner, A.M., Neil, K., Orsini, L., Packman, A.I., Plont, S., Renteria, L., Roche, K., Royer, T., Segura, C., Stegen, J., Toyoda, J., Wells, J., Wisnoski, N.I. (2019): Spatial and temporal variation in river corridor exchange across a 5th-order mountain stream network
Hydrol. Earth Syst. Sci. **23** (12), 5199 - 5225
695. Ward, A.S., Zarnetske, J.P., Baranov, V., Blaen, P.J., Brekenfeld, N., Chu, R., Derelle, R., Drummond, J., **Fleckenstein, J.H.**, Garayburu-Caruso, V., Graham, E., Hannah, D., Harman, C.J., Herzog, S., Hixson, J., Knapp, J.L.A., Krause, S., **Kurz, M.J.**, Lewandowski, J., Li, A., Martí, E., Miller, M., Milner, A.M., Neil, K., Orsini, L., Packman, A.I., Plont, S., Renteria, L., Roche, K., Royer, T., Schmadel, N.M., Segura, C., Stegen, J., Toyoda, J., Wells, J., Wisnoski, N.I., Wondzell, S.M. (2019): Co-located contemporaneous mapping of morphological, hydrological, chemical, and biological conditions in a 5th-order mountain stream network, Oregon, USA
Earth Syst. Sci. Data **11** (4), 1567 - 1581
696. Watson, R.A., Holohan, E.P., Al-Halbouni, D., Saberi, L., Sawarieh, A., Closson, D., Alrshdan, H., Abou Karaki, N., **Siebert, C.**, Walter, T.R., Dahm, T. (2019): Sinkholes and uvalas in evaporite karst: spatio-temporal development with links to base-level fall on the eastern shore of the Dead Sea
Solid Earth **10** (4), 1451 - 1468
697. Watt, A., Ainsworth, G., Balian, E., Cojocaru, G., **Darbi, M.**, Dicks, L., Eggermont, H., Furman, E., Goudeseune, L., Huybrecht, P., Kelemen, E., **Koch, F.**, Konstantinou, Z., Livoreil, B., **Locher, K.**, Lux, A., Mehring, M., **Neßhöver, C.**, Paloniemi, R., Saarikoski, H., Sousa Pinto, I., **Vandewalle, M.**, Varjopuro, R., Varumo, L., **Wittmer, H.**, Young, J. (2019): EKLIPSE: engaging knowledge holders and networks for evidence-informed European policy on biodiversity and ecosystem services
Evid. Policy **15** (2), 253 - 264

698. **Weber, M., Boehrer, B., Rinke, K.** (2019):
Minimizing environmental impact whilst securing drinking water quantity and quality demands from a reservoir
River Res. Appl. **35** (4), 365 - 374
699. Weil, M., **Mackenzie, K., Foit, K., Kühnel, D., Busch, W.**, Bundschuh, M., Schulz, R., Duis, K. (2019):
Environmental risk or benefit? Comprehensive risk assessment of groundwater treated with nano Fe⁰-based Carbo-Iron®
Sci. Total Environ. **677** , 156 - 166
700. Weinrich, S., Koch, S., **Bonk, F., Popp, D.**, Benndorf, D., Klamt, S., **Centler, F.** (2019):
Augmenting biogas process modeling by resolving intracellular metabolic activity
Front. Microbiol. **10** , art. 1095
701. **Weiβbecker, C., Heintz-Buschart, A., Bruelheide, H., Buscot, F., Wubet, T.** (2019):
Linking soil fungal generality to tree richness in young subtropical Chinese forests
Microorganisms **7** (11), art. 547
702. Wendler, S., Schlundt, C., Bucher, C.H., **Birkigt, J.**, Schipp, C.J., Volk, H.-D., Duda, G.N., Schmidt-Bleek, K. (2019):
Immune modulation to enhance bone healing—A new concept to induce bone using prostacyclin to locally modulate immunity
Front. Immunol. **10** , art. 713
703. **Wentzky, V.C., Frassl, M.A., Rinke, K., Boehrer, B.** (2019):
Metalimnetic oxygen minimum and the presence of *Planktothrix rubescens* in a low-nutrient drinking water reservoir
Water Res. **148** , 208 - 218
704. **Werner, B.J., Musolff, A., Lechtenfeld, O.J., de Rooij, G.H., Oosterwoud, M.R., Fleckenstein, J.H.** (2019):
High-frequency measurements explain quantity and quality of dissolved organic carbon mobilization in a headwater catchment
Biogeosciences **16** , 4497 - 4516
705. Westerband, A.C., Kagawa-Viviani, A.K., Bogner, K.K., Beilman, D.W., **Knight, T.M.**, Barton, K.E. (2019):
Seedling drought tolerance and functional traits vary in response to the timing of water availability in a keystone Hawaiian tree species
Plant Ecol. **220** (3), 321 - 344

706. **Westphal, K., Graeber, D., Musolff, A., Fang, Y., Jawitz, J.W., Borchardt, D.** (2019): Multi-decadal trajectories of phosphorus loading, export, and instream retention along a catchment gradient
Sci. Total Environ. **667**, 769 - 779
707. Weyhenmeyer, G.A., Hartmann, J., Hessen, D.O., Kopáček, J., Hejzlar, J., Jacquet, S., Hamilton, S.K., Verburg, P., Leach, T.H., Schmid, M., Flaim, G., Nöges, T., Nöges, P., **Wentzky, V.C.**, Rogora, M., Rusak, J.A., Kosten, S., Paterson, A.M., Teubner, K., Higgins, S.N., Lawrence, G., Kangur, K., Kokorite, I., Cerasino, L., Funk, C., Harvey, R., Moatar, F., de Wit, H.A., Zechmeister, T. (2019): Widespread diminishing anthropogenic effects on calcium in freshwaters
Sci. Rep. **9**, art. 10450
708. Whitehorn, P.R., Navarro, L.M., **Schröter, M.**, Fernandez, M., Rotllan-Puig, X., Marques, A. (2019): Mainstreaming biodiversity: A review of national strategies
Biol. Conserv. **325**, 157 - 163
709. Wieczorek, A.S., Schmidt, O., **Chatzinotas, A.**, **von Bergen, M.**, Gorissen, A., Kolb, S. (2019): Ecological functions of agricultural soil bacteria and microeukaryotes in chitin degradation: A case study
Front. Microbiol. **10**, art. 1293
710. **Wiederkehr, C., Berghöfer, A., Otsuki, K.** (2019): Ostrom's governance principles and sustainable financing of fish reserves
Hum. Ecol. **47** (1), 13 - 25
711. **Wiederkehr, C., Schröter, M., Adams, H., Seppelt, R., Hermans, K.** (2019): How does nature contribute to human mobility? A conceptual framework and qualitative analysis
Ecol. Soc. **24** (4), art. 31
712. Wiesmeier, M., Urbanski, L., Hobley, E., Lang, B., von Lützow, M., Marin-Spiotta, E., van Wesemael, B., **Rabot, E.**, **Ließ, M.**, Garcia-Franco, N., **Wollschläger, U.**, **Vogel, H.-J.**, Kögel-Knabner, I. (2019): Soil organic carbon storage as a key function of soils - A review of drivers and indicators at various scales
Geoderma **333**, 149 - 162
713. **Wild, R., Gücker, B., Brauns, M.** (2019): Agricultural land use alters temporal dynamics and the composition of organic matter in temperate headwater streams
Freshw. Sci. **38** (3), 566 - 581

714. Wilden, B., Majdi, N., **Kuhlicke, U.**, Neu, T.R., Traunspurger, W. (2019):
Flatworm mucus as the base of a food web
BMC Ecology **19**, art. 15
715. Wilson, C., Broughan, C., **Marselle, M.** (2019):
A new framework for the design and evaluation of a learning institution's student engagement activities
Stud. High. Educ. **44** (11), 1931 - 1944
716. Windisch, H.S., **Fink, P.** (2019):
Transcriptome sequencing of a keystone aquatic herbivore yields insights on the temperature-dependent metabolism of essential lipids
BMC Genomics **20**, art. 894
717. Winkelmann, T., Smalla, K., Amelung, W., Baab, G., Grunewaldt-Stöcker, G., Kanfra, X., Meyhöfer, R., Reim, S., Schmitz, M., **Vetterlein, D.**, Wrede, A., Zühlke, S., Grunewaldt, J., Weiß, S., Schloter, M. (2019):
Apple replant disease: causes and mitigation strategies
Curr. Issues Mol. Biol. **30**, 89 - 106
718. Winkler, P., Kaiser, K., Jahn, R., Mikutta, R., Fiedler, S., Cerli, C., Kölbl, A., Schulz, S., Jankowska, M., Schloter, M., Müller-Niggemann, C., Schwark, L., Woche, S.K., **Kümmel, S.**, Utami, S.R., Kalbitz, K. (2019):
Tracing organic carbon and microbial community structure in mineralogically different soils exposed to redox fluctuations
Biogeochemistry **143** (1), 31 - 54
719. **Witing, F.**, Gebel, M., Kurzer, H.-J., Friese, H., **Franko, U.** (2019):
Large-scale integrated assessment of soil carbon and organic matter-related nitrogen fluxes in Saxony (Germany)
J. Environ. Manage. **237**, 272 - 280
720. Witkowski, P.T., Drexler, J.F., **Kallies, R.**, Ličková, M., Bokorová, S., Maganga, G.D., Szemes, T., Leroy, E.M., Krüger, D.H., Drosten, C., Klempa, B. (2019):
Corrigendum to “Phylogenetic analysis of a newfound bat-borne hantavirus supports a Laurasiatherian host association for ancestral mammalian hantaviruses” [Infect. Genet. Evol. 41 (2016) 113–119]
Infect. Genet. Evol. **67**, 245

721. Wohlleben, W., Hellack, B., Nickel, C., Herrchen, M., Hund-Rinke, K., Kettler, K., Riebeling, C., Haase, A., Funk, B., **Kühnel, D.**, Göhler, D., Stintz, M., Schumacher, C., Wiemann, M., Keller, J., Landsiedel, R., Broßell, D., Pitzko, S., Kuhlbusch, T.A.J. (2019):
The nanoGRAVUR framework to group (nano)materials for their occupational, consumer, environmental risks based on a harmonized set of material properties, applied to 34 case studies
Nanoscale **11** (38), 17637 - 17654
722. Wohlwend, M.R., Schutzenhofer, M.R., **Knight, T.M.** (2019):
Long-term experiment manipulating community assembly results in favorable restoration outcomes for invaded prairies
Restor. Ecol. **27** (6), 1307 - 1316
723. **Wolf, C.**, Völker, J., **Klauer, B.** (2019):
Der ökologische Zustand nach WRRL – Potenziale einer ergänzenden funktionalen Zustandsbewertung. The ecological status under WFD – potentials of a supplementary functional assessment
WasserWirtschaft **109** (4), 22 - 26
724. **Wolff, M., Haase, D.** (2019):
Mediating sustainability and liveability—Turning points of green space supply in European cities
Front. Environ. Sci. **7** , art. 61
725. **Wolff, M., Rink, D.** (2019):
Strukturen von Wohnungsleerstand in Deutschland. Eine Analyse der Gebäude- und Wohnungszählung 2011 in deutschen Gemeinden. Structure of housing vacancy in Germany. A typology of attributes of the German Housing Census 2011 in German municipalities
Raumforschung und Raumordnung **77** (3), 273 - 290
726. Woźniak-Karczewska, M., Lisiecki, P., Białas, W., Owsianik, M., Piotrowska-Cyplik, A., Wolko, L., Ławniczak, Ł., **Heipieper, H.J.**, Gutierrez, T., Chrzanowski, Ł. (2019):
Effect of bioaugmentation on long-term biodegradation of diesel/biodiesel blends in soil microcosms
Sci. Total Environ. **671** , 948 - 958
727. **Worrich, A., Musat, N., Harms, H.** (2019):
Associational effects in the microbial neighborhood
ISME J. **13** , 2143 - 2149

728. **Wu, L., Liu, Y., Liu, X.**, Bajaj, A., Sharma, M., Lal, R., **Richnow, H.H.** (2019):
Isotope fractionation approach to characterize the reactive transport processes governing
the fate of hexachlorocyclohexanes at a contaminated site in India
Environ. Int. **132** , art. 105036
729. **Wu, L., Moses, S., Liu, Y., Renpenning, J., Richnow, H.H.** (2019):
A concept for studying the transformation reaction of Hexachlorocyclohexanes in food
webs using multi-element compound-specific isotope analysis
Anal. Chim. Acta **1064** , 56 - 64
730. Wu, Q., Tan, J., **Guo, F.**, Li, H., Chen, S. (2019):
Multi-scale relationship between land surface temperature and landscape pattern based on
wavelet coherence: The case of metropolitan Beijing, China
Remote Sens. **11** (24), art. 3021
731. Wu, Q., Tu, K., Sun, H., **Chen, C.** (2019):
Investigation on the sustainability and efficiency of single-well circulation (SWC)
groundwater heat pump systems
Renew. Energy **130** , 656 - 666
732. Wu, S., Kuhn, G., Diekmann, B., Lembke-Jene, L., Tiedemann, R., Zheng, X.,
Ehrhardt, S., Arz, H.W., Lamy, F. (2019):
Surface sediment characteristics related to provenance and ocean circulation in the Drake
Passage sector of the Southern Ocean
Deep-Sea Res. Part I-Oceanogr. Res. Pap. **154** , art. 103135
733. Xu, C., **Niu, L.**, Guo, H., Sun, X., Chen, L., Tu, W., Dai, Q., Ye, J., Liu, W., Liu, J.
(2019):
Long-term exposure to the non-steroidal anti-inflammatory drug (NSAID) naproxen
causes thyroid disruption in zebrafish at environmentally relevant concentrations
Sci. Total Environ. **676** , 387 - 395
734. Xu, C., **Niu, L.**, Zou, D., Zhu, S., Liu, W. (2019):
Congener-specific composition of polychlorinated biphenyls (PCBs) in soil-air
partitioning and the associated health risks
Sci. Total Environ. **684** , 486 - 495
735. Xu, X., **Haase, D.**, Su, M., Yang, Z. (2019):
The impact of urban compactness on energy-related greenhouse gas emissions across EU
member states: Population density vs physical compactness
Appl. Energy **254** , art. 113671

736. Yan, R., Kappeler, A., Muehe, E.M., Knorr, K.-H., Horn, M.A., **Poser, A.**, Lohmayer, R., Peiffer, S. (2019):
Effect of reduced sulfur species on chemolithoautotrophic pyrite oxidation with nitrate
Geomicrobiol. J. **36** (1), 19 - 29
737. **Yang, J.**, Graf, T., Ptak, T. (2019):
Combined influence of weir construction and sea-level rise on freshwater resources of a coastal aquifer in northern Germany
Hydrogeol. J. **27** (7), 2695 - 2705
738. Yang, K., Peng, C., Peñuelas, J., Kardol, P., Li, Z., Zhang, L., Ni, X., Yue, K., Tan, B., **Yin, R.**, Xu, Z. (2019):
Immediate and carry-over effects of increased soil frost on soil respiration and microbial activity in a spruce forest
Soil Biol. Biochem. **135** , 51 - 59
739. Yang, S., **Büttner, O.**, Jawitz, J.W., **Kumar, R.**, Rao, P.S.C., **Borchardt, D.** (2019):
Spatial organization of human population and wastewater treatment plants in urbanized river basins
Water Resour. Res. **55** (7), 6138 - 6152
740. Yang, S., **Büttner, O.**, **Kumar, R.**, **Jäger, C.G.**, Jawitz, J.W., Rao, P.S.C., **Borchardt, D.** (2019):
Spatial patterns of water quality impairments from point source nutrient loads in Germany's largest national River Basin (Weser River)
Sci. Total Environ. **697** , art. 134145
741. Yang, S., Yuan, M., Shi, Z., Chiariello, N.R., Docherty, K.M., Dong, S., Field, C.B., Gu, Y., **Gutknecht, J.**, Hungate, B.A., Le Roux, X., Ma, X., Niboyet, A., Yuan, T., Zhou, J., Yang, Y. (2019):
Long-term elevated CO₂ shifts composition of soil microbial communities in a Californian annual grassland, reducing growth and N utilization potentials
Sci. Total Environ. **652** , 1474 - 1481
742. **Yang, X.**, Jomaa, S., **Büttner, O.**, **Rode, M.** (2019):
Autotrophic nitrate uptake in river networks: A modeling approach using continuous high-frequency data
Water Res. **157** , 258 - 268
743. **Yang, X.**, Jomaa, S., **Rode, M.** (2019):
Sensitivity analysis of fully distributed parameterization reveals insights into heterogeneous catchment responses for water quality modeling
Water Resour. Res. **55** (12), 10935 - 10953

744. **Yazbeck, A.M.**, Stadler, P.F., Tout, K., Fallmann, J. (2019):
Automatic curation of large comparative animal MicroRNA datasets
Bioinformatics **35** (22), 4553 - 4559
745. **Yin, R.**, Eisenhauer, N., **Auge, H.**, Purahong, W., Schmidt, A., Schädler, M. (2019):
Additive effects of experimental climate change and land use on faunal contribution to litter decomposition
Soil Biol. Biochem. **131** , 141 - 148
746. **Yin, R.**, Eisenhauer, N., Schmidt, A., Gruss, I., Purahong, W., Siebert, J., Schädler, M. (2019):
Climate change does not alter land-use effects on soil fauna communities
Appl. Soil Ecol. **139** , 79 - 84
747. **Yin, R.**, Gruss, I., Eisenhauer, N., Kardol, P., Thakur, M.P., Schmidt, A., Xu, Z., Siebert, J., **Zhang, C.**, Wu, G.-L., Schädler, M. (2019):
Land use modulates the effects of climate change on density but not community composition of Collembola
Soil Biol. Biochem. **138** , art. 107598
748. **Yoshioka, K.**, Parisio, F., Naumov, D., Lu, R., Kolditz, O., Nagel, T. (2019):
Comparative verification of discrete and smeared numerical approaches for the simulation of hydraulic fracturing
GEM - Int. J. Geomath. **10** (1), art. 13
749. **Yoshioka, K.**, Pasikki, R., Stimac, J. (2019):
A long term hydraulic stimulation study conducted at the Salak geothermal field
Geothermics **82** , 168 - 181
750. Yu, L., Wu, X., Zheng, X., **Zheng, T.**, Xin, J., Walther, M. (2019):
An index system constructed for ecological stress assessment of the coastal zone: A case study of Shandong, China
J. Environ. Manage. **232** , 499 - 504
751. Zabel, F., Delzeit, R., Schneider, J.M., **Seppelt, R.**, Mauser, W., Václavík, T. (2019):
Global impacts of future cropland expansion and intensification on agricultural markets and biodiversity
Nat. Commun. **10** , art. 2844
752. Zahn, M., **Kurteva-Yaneva, N.**, Schuster, J., Krug, U., Georgi, T., Müller, R.H., Rohwerder, T., Sträter, N. (2019):
Structures of 2-Hydroxyisobutyric Acid-CoA ligase reveal determinants of substrate specificity and describe a multi-conformational catalytic cycle
J. Mol. Biol. **431** (15), 2747 - 2761

753. **Zarejousheghani, M.**, Lorenz, W., Vanninen, P., Alizadeh, T., **Cämmerer, M.**, **Borsdorf, H.** (2019):
Molecularly imprinted polymer materials as selective recognition sorbents for explosives:
a review
Polymers **11** (5), art. 888
754. **Zech, A.**, **Attinger, S.**, Bellin, A., Cvetkovic, V., **Dietrich, P.**, Fiori, A., **Teutsch, G.**, Dagan, G. (2019):
A critical analysis of transverse dispersivity field data
Groundwater **57** (4), 632 - 639
755. Zeeman, M.J., Shupe, H., **Baessler, C.**, Ruehr, N.K. (2019):
Productivity and vegetation structure of three differently managed temperate grasslands
Agric. Ecosyst. Environ. **270-271** , 129 - 148
756. **Zehnsdorf, A.**, Blumberg, M., **Müller, R.A.** (2019):
Helophyte mats (wetland roofs) with high evapotranspiration rates as a tool for
decentralised rainwater management – process stability improved by simultaneous
greywater treatment
Water Supply **19** (3), 808 - 814
757. **Zehnsdorf, A.**, **Willebrand, K.C.U.**, **Trabitzsch, R.**, **Knechtel, S.**, Blumberg,
M., **Müller, R.** (2019):
Wetland roofs as an attractive option for decentralized water management and air
conditioning enhancement in growing cities—a review
Water **11** (9), art. 1845
758. Zhang, B., Zheng, X., **Zheng, T.**, Xin, J., Sui, S., Zhang, D. (2019):
The influence of slope collapse on water exchange between a pit lake and a
heterogeneous aquifer
Front. Env. Sci. Eng. **13** , art. 20
759. **Zhang, C.**, **Settele, J.**, Sun, W., **Wiemers, M.**, Zhang, Y., **Schweiger, O.** (2019):
Resource availability drives trait composition of butterfly assemblages
Oecologia **190** (4), 913 - 926
760. **Zhang, D.**, **Wu, L.**, Yao, J., **Vogt, C.**, **Richnow, H.-H.** (2019):
Carbon and hydrogen isotopic fractionation during abiotic hydrolysis and aerobic
biodegradation of phthalate esters
Sci. Total Environ. **660** , 559 - 566
761. Zhang, P., Pan, J., Xie, L., **Zhou, T.**, Bai, H., Zhu, Y. (2019):
Spatial–temporal evolution and regional differentiation features of urbanization in China
from 2003 to 2013
ISPRS Int. Geo-Inf. **8** (1), art. 31

762. Zhang, R., **Neu, T.R.**, Blanchard, V., Vera, M., Sand, W. (2019): Biofilm dynamics and EPS production of a thermoacidophilic bioleaching archaeon *New Biotech.* **51**, 21 - 30
763. Zhang, R., **Neu, T.R.**, Li, Q., Blanchard, V., Zhang, Y., Schippers, A., Sand, W. (2019): Insight into interactions of thermoacidophilic archaea with elemental sulfur: Biofilm dynamics and EPS analysis *Front. Microbiol.* **10**, art. 896
764. Zheng, T., Zheng, X., Wang, H., Xin, J., Zhang, B., **Walther, M.** (2019): Innovative techniques for measuring the oil content of oil-contaminated porous media *Ground Water Monit. Remediat.* **39** (3), 78 - 83
765. **Zhou, T.**, Geng, Y., Chen, J., Sun, C., **Haase, D.**, **Lausch, A.** (2019): Mapping of soil total nitrogen content in the middle reaches of the Heihe River Basin in China using multi-source Remote sensing-derived variables *Remote Sens.* **11** (24), art. 2934
766. **Zozmann, H.**, **Klassert, C.**, **Sigel, K.**, **Gawel, E.**, **Klauer, B.** (2019): Commercial tanker water demand in Amman, Jordan—A spatial simulation model of water consumption decisions under intermittent network supply *Water* **11** (2), art. 254
767. Zupo, V., Mutualipassi, M., Glaviano, F., Buono, A.C., Cannavacciuolo, A., **Fink, P.** (2019): Inducers of settlement and metamorphosis of the shrimp *Hippolyte inermis* Leach in *Posidonia oceanica* *Sci. Rep.* **9**, art. 12336

Artikel in anderen Zeitschriften

768. Afzal, M., Arslan, M., Müller, J.A., Shabir, G., Islam, E., Tahseen, R., Anwar-ul-Haq, M., Hashmat, A.J., Iqbal, S., Khan, Q.M. (2019):
Floating treatment wetlands as a suitable option for large-scale wastewater treatment
Nature Sustainability **2** (9), 863 - 871
769. Ben-Salem, N., Anane, M., Jomaa, S., Jellali, S. (2019):
Impact of anthropogenic activities on physiochemical properties of Wadi El Bey
(Northeast of Tunisia)
Hydrolink (3), 70 - 73
770. Bonn, A., Hotes, S. (2019):
IPBES-AG : der globale Assessment-Bericht von IPBES ist da
Nachrichten der Gesellschaft für Ökologie **49** (1), 20 - 21
771. Brack, W., Altenburger, R. (2019):
Projekt Solutions: Mikroschadstoffe in europäischen Gewässern
Wasserwirtschaft, Wassertechnik : wwt (4), 15 - 20
772. Bröker, M., Settele, J. (2019):
Artenschutz: alle sind gefordert
Top Agrar **48** (6), 48
773. Buczko, U., Zicker, T., Eichler-Löbermann, B., Brandt, T. (2019):
Abschätzung von diffusen Phosphor-Austrägen mit Index-Verfahren - Entwicklung und Anwendung eines PI für Nordost-Deutschland. Estimating diffuse phosphorous loss using an index method – Development and use of a phosphorous index for north-eastern Germany
KW Korrespondenz Wasserwirtschaft **12** (3), 154 - 158
774. Díaz-Reviriego, I., Turnhout, E., Beck, S. (2019):
Participation and inclusiveness in the Intergovernmental Science–Policy Platform on Biodiversity and Ecosystem Services
Nature Sustainability **2** (5), 1 - 8
775. Eisenhauer, N., Bonkowski, M., Brose, U., Buscot, F., Durka, W., Ebeling, A., Fischer, M., Gleixner, G., Heintz-Buschart, A., Hines, J., Jesch, A., Lange, M., Meyer, S., Roscher, C., Scheu, S., Schielzeth, H., Schloter, M., Schulz, S., Unsicker, S., van Dam, N.M., Weigelt, A., Weisser, W.W., Wirth, C., Wolf, J., Schmid, B. (2019):
Biotic interactions, community assembly, and ecoevolutionary dynamics as drivers of long-term biodiversity–ecosystem functioning relationships
Research Ideas and Outcomes **5**, e47042

776. Fokker, C., Vossen, P., de Knijff, P., **Wiemers, M.**, van Swaay, C. (2019):
(Oostelijke) resedawitjes in Nederland
Vlinders (2), 12 - 14
777. **Gawel, E.** (2019):
Ein nachhaltiger Ordnungsrahmen für die Wasserwirtschaft
InfrastrukturRecht **16** (1), 29 - 31
778. **Gawel, E.** (2019):
Gebühren und Wettbewerb – Theoretische und praktische Herausforderungen
Wirtschaft und Verwaltung : Themenheft zum Gewerbeearchiv (1), 25 - 34
779. **Gawel, E., Fischer, H.** (2019):
Eine Abgabe auf Arzneimittel als Instrument der Mikroschadstoffpolitik
Zeitschrift für Umweltpolitik und Umweltrecht **42** (3), 281 - 299
780. **Gawel, E., Strunz, S.** (2019):
Einstieg in den Kohleausstieg – Was bringt der Kommissionskompromiss? Standpunkt
Zeitschrift für Umweltrecht (ZUR) **30** (3), 129 - 130
781. **Grimm-Seyfarth, A., Chiacchio, M., Henle, K.** (2019):
Einfluss von Wintertourismus auf montane herpetologische Artengemeinschaften in Europa
Elaphe **2019** (5), 89
782. Grimski, D., **Bartke, S.** (2019):
Die Zukunft der Boden- und Flächenforschung in Europa. Ergebnisse des EU-Projektes INSPIRATION zur Forschungsagenda für den Bodenschutz aus Stakeholdersicht
Bodenschutz **24** (1), 16 - 27
783. **Haase, D., Haase, A.** (2019):
Grüne Stadt für alle? Potenziale einer sozialverträglichen Entwicklung
Stadt + Grün **68** (10), 17 - 22
784. **Haselow, L., Rupp, H.**, Bondarovich, A.A., **Meissner, R.** (2019):
Measurement and estimation of evapotranspiration in semi-arid grassland during the summer season in southwest Siberia
Eurasian Journal of Soil Science **8** (3), 257 - 266
785. **Hecker, S.**, Wicke, N., Haklay, M., **Bonn, A.** (2019):
How does policy conceptualise citizen science? A qualitative content analysis of international policy documents
Citizen Science: Theory and Practice **4** (1), art. 32

786. **Kabisch, N.** (2019):
Transformation of urban brownfields through co-creation: the multi-functional
Lene-Voigt Park in Leipzig as a case in point
Urban Transformations 1 , art. 2
787. Kelly, R., Mackay, M., Nash, K.L., Cvitanovic, C., Allison, E.H., Armitage, D., **Bonn, A.**, Cooke, S.J., Frusher, S., Fulton, E.A., Halpern, B.S., Lopes, P.F.M., Milner-Gulland, E.J., Peck, M.A., Pecl, G.T., Stephenson, R.L., Werner, F. (2019):
Ten tips for developing the next generation of interdisciplinary socio-ecological
researchers
Socio-Ecological Practice Research 1 (2), 149 - 161
788. **Klöckner, P.**, Rynek, J., **Reemtsma, T.**, **Wagner, S.** (2019):
Quantifizierung von Reifenabrieb anhand des Zinkgehalts nach spezifischer Anreicherung
Vom Wasser 117 (3), 95 - 97
789. **Köck, W.** (2019):
Naturschutz und Landwirtschaft – eine Bilanz aus der Perspektive des Rechts
Zeitschrift für Umweltrecht (ZUR) 30 (2), 67 - 74
790. **Köck, W.** (2019):
Buchrezension: Grundzüge des Umweltrechts (hrsg. von Eckard Rehbinder und
Alexander Schink), 5. Aufl. 2018, Erich Schmidt Verlag, 1.386 Seiten, 174 €.
Zeitschrift für Umweltrecht (ZUR) 30 (4), 249 - 251
791. **Köck, W., Bovet, J.** (2019):
Gesetzliche Ziele der Raumordnung zur Flächenverbrauchsbegrenzung. Zum
Gesetzentwurf der Bayerischen Grünen v. 11.07.2019 über die verbindliche Einführung
eines 5-Hektar-Ziels
Deutsches Verwaltungsblatt 134 (23), 1501 - 1508
792. **Köck, W., Markus, T.** (2019):
Neue Impulse für den Klimaschutz! Editorial
Zeitschrift für Umweltrecht (ZUR) 30 (5), 257 - 258
793. Koller, A., **Settele, J.** (2019):
Die Stadt hat eine Arche-Noah-Funktion für einige Tier- und Pflanzenarten übernommen
Garten + Landschaft 129 (8), 16 - 19
794. **Kühn, E., Musche, M., Harpke, A., Feldmann, R., Ulbrich, K., Wiemers, M., Settele, J.** (2019):
Tagfalter-Monitoring Deutschland: Jahresauswertung 2018
Oedipus 36 , 6 - 38

795. **Markus, T.** (2019):
Resource responsibility through European regulations for trade in fisheries products
EurUP **17** (4), 490 - 497
796. **Markus, T.**, Silva-Sánchez, P.P. (2019):
Zum Schutz der Umwelt durch die Amerikanische Menschenrechtskonvention: das Gutachten des IAGMR OC-23/2017
Zeitschrift für Umweltrecht (ZUR) **30** (3), 150 - 156
797. Meyer, P.B., **Schwarze, R.** (2019):
Financing climate-resilient infrastructure: Determining risk, reward, and return on investment
Front. Eng. Manag. **6** (1), 117 - 127
798. **Michalek, G.**, **Thronicker, I.**, Yildiz, Ö., **Schwarze, R.** (2019):
Habitually green: integrating the concept of habit into the design of pro-environmental interventions at the workplace. Gewohnheitsmäßig grün: Integration des Konzepts der Gewohnheit in die Gestaltung umweltorientierter Maßnahmen am Arbeitsplatz
NachhaltigkeitsManagementForum = Sustainability Management Forum **27** (2), 113 - 124
799. Neale, P.A., **Escher, B.I.** (2019):
In vitro bioassays to assess drinking water quality
Current Opinion in Environmental Science & Health **7** , 1 - 7
800. Paul, U., Karpf, C., **Mosig, P.** (2019):
Hydraulische Modellierung als Werkzeug zur Bemessung und Bewertung der Beschickung von Bodenfiltern. Hydraulic modelling as a tool for measuring and evaluating the feeding of soil filters
KA - Korrespondenz Abwasser, Abfall **66** (5), 378 - 384
801. Pusch, M.T., Podschun, S.A., Albert, C., Damm, C., Dehnhardt, A., **Fischer, C.**, Fischer, H., Foeckler, F., Gelhaus, M., Gerstner, L., Iwanowski, J., Homann, T.G., Mehl, D., Rayanov, M., Ritz, S., Rumm, A., **Scholz, M.**, Stammel, B., Thiele, J., Venohr, M. (2019):
Ökosystemleistungen von Flussauen bewerten: Der RESI-Ansatz
Auenmagazin (16), 6 - 10
802. **Reese, M.** (2019):
Anmerkung zum Urteil des BVerwG vom 27. September 2018 - 7 C 23.16 (Keine Klagebefugnis der öffentlich-rechtlichen Entsorgungsträger auf behördliches Einschreiten gegen gewerbliche Hausmüllsammlung)
Zeitschrift für Umweltrecht (ZUR) **30** (2), 90 - 92

803. **Rink, D.** (2019):
Urbane Wälder in Leipzig : ein neuer Grünflächentyp
Transforming Cities **4** (3), 66 - 69
804. **Schwarze, R.** (2019):
Das Klimapaket der Bundesregierung: Außen hui, innen pfui?
Zeitschrift für Umweltrecht (ZUR) **30** (12), 641 - 624
805. **Schwarze, R.** (2019):
Licht und Schatten in Katowice
Universitas **74** (873), 87 - 90
806. **Settele, J.** (2019):
Les insectes en chute libre
Pour Sci. **55** (503), 26 - 34
807. **Settele, J.** (2019):
Insektensterben – beunruhigender Sinkflug
Spektrum der Wissenschaft (5), 12 - 21
808. **Settele, J.** (2019):
Globale Biodiversität: Wie können wir Ökosysteme langfristig sichern?
Umwelt aktuell (7), 2 - 3
809. Sever, M., **Lazik, D.** (2019):
New sensor measures biological activity in soil at field scale in real time
CSA News **64** (October), 8 - 9
810. Shanley, L.A., Parker, A., Schade, S., **Bonn, A.** (2019):
Policy perspectives on citizen science and crowdsourcing
Citizen Science: Theory and Practice **4** (4), art. 30
811. **Singh, J., Schädler, M.**, Demetrio, W., Brown, G.G., Eisenhauer, N. (2019):
Climate change effects on earthworms - a review
Soil Organisms **91** (3), 114 - 138
812. Stölting, S., Schmidt, H., **Scholz, M.**, Lohwasser, D., Foeckler, F., **Rumm, A.** (2019):
Die Aue der Unteren Saale: Abhängigkeit der Vegetation von hydrologischen
Standortfaktoren
Auenmagazin (15), 32 - 40

Journalherausgaben

813. **Strehlitz, B., Stoltenburg, R.** (eds., 2019):
Special Issue "Aptamers and applications"
Sensors **19**,

Bücher

814. **Binder, S.** (2019):
Flurbereinigungsplanung und Ökosystemsenschutz als Rechts- und Governance-Problem
Beiträge zur sozialwissenschaftlichen Nachhaltigkeitsforschung 27
Metropolis, Marburg, 426 S.
815. **Hoschek, A.** (2019):
Whole-cell redox biocatalysis driven by photosynthesis: an integrated bioprocess design
for phototrophic biocatalysts
Chemical biotechnology 31
Shaker, Aachen, XVI, 189 pp.
816. Railsback, S.F., **Grimm, V.** (2019):
Agent-based and individual-based modeling: a practical introduction (2nd ed.)
Princeton University Press, Princeton, NJ, 340 pp.

Buchherausgaben

817. Deeming, H., Fordham, M., **Kuhlicke, C.**, Pedoth, L., Schneiderbauer, S., Shreve, C. (eds., 2019):
Framing community disaster resilience: resources, capacities, learning, and action
Wiley, Hoboken, NJ, 288 pp.
818. Díaz, S., **Settele, J.**, Brondízio, E.S., Ngo, H.T., Guèze, M., Agard, J., Arneth, A., Balvanera, P., Brauman, K.A., Butchart, S.H.M., Chan, K.M.A., Garibaldi, L.A., Ichii, K., Liu, J., Subramanian, S.M., Midgley, G.F., Miloslavich, P., Molnár, Z., Obura, D., Pfaff, A., Polasky, S., Purvis, A., Razzaque, J., Reyers, B., Chowdhury, R.R., Shin, Y.J., Visscher-Hamakers, I.J., Willis, K.J., Zayas, C.N. (eds., 2019):
Summary for policymakers of the IPBES global assessment report on biodiversity and ecosystem services
Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) , Bonn, 56 pp.
819. Dzybulka, D., **Köck, W.** (Hrsg., 2019):
Landwirtschaft und Naturschutzrecht : Beiträge des 13. Deutschen Naturschutzrechtstages in Leipzig
Beiträge zum Landwirtschaftsrecht und zur Biodiversität 13
Nomos, Baden-Baden, 218 S.
820. Faßbender, K., **Köck, W.** (Hrsg., 2019):
Querschnittsprobleme des Umwelt- und Planungsrechts - Rechtsschutz und Umweltprüfungen : Dokumentation des 23. Leipziger Umweltrechtlichen Symposions des Instituts für Umwelt- und Planungsrecht der Universität Leipzig und des Helmholtz-Zentrums für Umweltforschung - UFZ am 22. und 23. März 2018
Leipziger Schriften zum Umwelt- und Planungsrecht 38
Nomos, Baden-Baden, 174 S.
821. **Gawel, E., Strunz, S., Lehmann, P., Purkus, A.** (eds., 2019):
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, X, 557 pp.
822. Ginzky, H., Dooley, E., Heuser, I.L., Kasimbazi, E., **Markus, T.**, Qin, T. (eds., 2019):
International yearbook of soil law and policy 2018
Springer International Publishing, Cham, XIV, 395 pp.
823. **Karutz, R., Berghöfer, A.**, Moore, L.R., van Wyk, E. (eds., 2019):
A thematic atlas of nature's benefits to Dar es Salaam : Critical reasons for greening the city and for keeping urban and peri-urban ecosystems intact. Kitabu cha ramani ya faida za mazingira Dar es Salaam : Sababu muhimu kwa kusaidia mimea na kwa kuhifadhi ecosystems mjini
Helmholtz Centre for Environmental Research – UFZ ; ICLEI Local Governments for Sustainability – Africa Secretariat, Leipzig, Germany ; Cape Town, South Africa, 76 pp.

824. Köster, S., **Reese, M.**, Zuo, J. (eds., 2019):
Urban water management for future cities : technical and institutional aspects from
Chinese and German perspective
Future City Vol. 12
Springer International Publishing, Cham, XV, 499 pp.
825. **Marselle, M.R.**, Stadler, J., Korn, H., Irvine, K.N., **Bonn, A.** (eds., 2019):
Biodiversity and health in the face of climate change
Springer, Cham, XXVIII, 481 pp.
826. Sachse, A., Liao, Z., Zhu, W., Dai, X., **Kolditz, O.** (eds., 2019):
Chinese water systems. Volume 2: Managing water resources for urban catchments:
Chaohu
Terrestrial Environmental Sciences
Springer Nature, Cham, XVII, 242 pp.
827. **Schröter, M.**, **Bonn, A.**, **Klotz, S.**, **Seppelt, R.**, **Baessler, C.** (eds., 2019):
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, XXX, 414 pp.
828. Straßheim, H., **Beck, S.** (eds., 2019):
Handbook of behavioural change and public policy
Edward Elgar, Cheltenham, 384 pp.
829. Yue, T.X., **Nixdorf, E.**, **Zhou, C.**, Xu, B., Zhao, N., Fan, Z., Huang, X., **Chen, C.**,
Kolditz, O. (eds., 2019):
Chinese water systems. Volume 3: Poyang Lake Basin
Terrestrial Environmental Sciences
Springer Nature, Cham, XIV, 334 pp.

Buchkapitel

830. **Aubron, T., van Afferden, M., Khurelbaatar, G., Müller, R.** (2019):
WP-B: Development and Testing of a GIS-Based Planning Tool for Creating
Decentralized Sanitation Scenarios
In: Sachse, A., Liao, Z., Zhu, W., Dai, X., Kolditz, O. (eds.)
Chinese water systems. Volume 2: Managing water resources for urban catchments: Chaochu
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 125 - 157
831. **Baessler, C., Klotz, S.** (2019):
Introduction to part II: Drivers and their risks for ecosystems, their functions, and services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 35 - 38
832. **Banzhaf, E., de la Barrera, F., Reyes-Paecke, S.** (2019):
Urban green infrastructure in support of ecosystem services in a highly dynamic South
American city: a multi-scale assessment of Santiago de Chile
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 157 - 165
833. Barry, K.E., de Kroon, H., **Dietrich, P., Harpole, W.S., Roeder, A., Schmid, B., Clark, A.T., Mayfield, M.M., Wagg, C., Roscher, C.** (2019):
Linking local species coexistence to ecosystem functioning: A conceptual framework
from ecological first principles in grassland ecosystems
In: Eisenhauer, N., Bohan, D.A., Dumbrell, A.J. (eds.)
Mechanisms underlying the relationship between biodiversity and ecosystem function
Adv. Ecol. Res. 61
Academic Press / Elsevier, London, p. 265 - 296
834. **Bartkowski, B.** (2019):
CRISPR/Cas, precaution and democracy: the challenging governance of a rapidly
changing technology
In: Dürnberger, C., Pfeilmeier, S., Schleissing, S. (eds.)
Genome editing in agriculture. Between precaution and responsibility
TTN Studien 7
Nomos, Baden-Baden, p. 181 - 196
835. **Bartkowski, B., Hansjürgens, B.** (2019):
Risk and uncertainty as sources of economic value of biodiversity and ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 21 - 24

836. **Bartkowski, B., Lienhoop, N.** (2019):
Deliberative monetary valuation
In: Shugart, H. (ed.)
Oxford Research Encyclopedia of Environmental Science
Oxford University Press, Oxford, p. 1 - 36
837. **Bartkowski, B.** (2019):
Valuation of biodiversity
In: Shugart, H. (ed.)
Oxford Research Encyclopedia of Environmental Science
Oxford University Press, Oxford, p. 1 - 33
838. Beugnon, R., Steinauer, K., Barnes, A.D., Ebeling, A., **Roscher, C.**, Eisenhauer, N. (2019):
Plant functional trait identity and diversity effects on soil meso- and macrofauna in an experimental grassland
In: Eisenhauer, N., Bohan, D.A., Dumbrell, A.J. (eds.)
Mechanisms underlying the relationship between biodiversity and ecosystem function
Adv. Ecol. Res. 61
Academic Press / Elsevier, London, p. 163 - 184
839. **Bovet, J.** (2019):
The electricity transmission line planning process at European level: legal framework and need for reforms
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 453 - 466
840. Brieler, U., **Rink, D.** (2019):
Das politische Feld
In: John, U., von Hehl, U. (Hrsg.)
Geschichte der Stadt Leipzig ; Band 4: Vom Ersten Weltkrieg bis zur Gegenwart
Leipziger Universitätsverlag, Leipzig, S. 819 - 842
841. **Chen, C.**, Montzka, C., Huth, J., Kuenzer, C., Kunstmann, H., Yue, T.X., **Kolditz, O.** (2019):
Research Centre for Environmental Information Science (RCEIS)
In: Yue, T.X., Nixdorf, E., Zhou, C., Xu, B., Zhao, N., Fan, Z., Huang, X., Chen, C., Kolditz, O. (eds.)
Chinese water systems. Volume 3: Poyang Lake Basin
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 311 - 334

842. **Cord, A.F., Schwarz, N., Seppelt, R., Volk, M., Schröter, M.** (2019):
Introduction to part III: Trade-offs and synergies among ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 245 - 249
843. **Dilling, O., Köck, W.** (2019):
Germany
In: Lees, E., Viñuales, J. E. (eds.)
The Oxford handbook of comparative environmental law
Oxford University Press, Oxford, p. 190 - 211
844. **Dittrich, A., Seppelt, R., Václavík, T., Cord, A.F.** (2019):
Spatial patterns of ecosystem service bundles in Germany
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 279 - 283
845. Dotzauer, M., Daniel-Gromke, J., **Thrän, D.** (2019):
Drivers of risks for biodiversity and ecosystem services: biogas plants development in Germany
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 113 - 117
846. Eisenhauer, N., Schielzeth, H., Barnes, A.D., Barry, K., **Bonn, A.**, Brose, U., Bruelheide, H., Buchmann, N., **Buscot, F.**, Ebeling, A., Ferlian, O., Freschet, G.T., Giling, D.P., Hättenschwiler, S., Hillebrand, H., Hines, J., Isbell, F., Koller-France, E., König-Ries, B., de Kroon, H., Meyer, S.T., Milcu, A., Müller, J., Nock, C.A., Petermann, J.S., **Roscher, C.**, Scherber, C., Scherer-Lorenzen, M., Schmid, B., Schnitzer, S.A., Schuldt, A., Tscharntke, T., Türke, M., van Dam, N.M., van der Plas, F., Vogel, A., Wagg, C., Wardle, D.A., Weigelt, A., Weisser, W.W., Wirth, C., Jochum, M. (2019):
A multitrophic perspective on biodiversity–ecosystem functioning research
In: Eisenhauer, N., Bohan, D.A., Dumbrell, A.J. (eds.)
Mechanisms underlying the relationship between biodiversity and ecosystem function
Adv. Ecol. Res. 61
Academic Press / Elsevier, London, p. 1 - 54
847. **Fischer, R., Knapp, N., Bohn, F., Huth, A.** (2019):
Remote sensing measurements of forest structure types for ecosystem service mapping
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 63 - 67

848. **Förster, J., Mcleod, E., Bruton-Adams, M.M., Wittmer, H.** (2019):
Climate change impacts on small island states: ecosystem services risks and opportunities
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 353 - 359
849. **Franko, U., Witing, F., Volk, M.** (2019):
Climate change induced carbon competition: bioenergy versus soil organic matter reproduction
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 257 - 262
850. **Gawel, E., Bedtke, N.** (2019):
Economic requirements and instruments for sustainable urban water management – comparative review
In: Köster, S., Reese, M., Zuo, J. (eds.)
Urban water management for future cities : technical and institutional aspects from Chinese and German perspective
Future City Vol. 12
Springer International Publishing, Cham, p. 445 - 458
851. **Gawel, E.** (2019):
Mikroverunreinigungen und Reform der Abwasserabgabe
In: Hübner, U., Heimreich, B., Drewes, J.E. (Hrsg.)
Weitergehende Abwasserbehandlung - Anforderungen, Finanzierung und Umsetzung. 47. Abwassertechnisches Seminar, München
Berichte aus der Siedlungswasserwirtschaft : Berichtsheft 218
Technische Universität München , München , S. 113 - 127
852. **Gawel, E., Strunz, S., Lehmann, P.** (2019):
A public choice view on the climate and energy policy mix in the EU: how do the Emissions Trading Scheme and support for renewable energies interact?
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 395 - 412
853. **Gawel, E., Strunz, S., Lehmann, P., Purkus, A.** (2019):
Towards a European energy transition? A review of current policy challenges and scientific debates
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 1 - 7

854. **Grimm, V.** (2019):
Individual-based models (updated: 2018)
In: Fath, B.D. (ed.)
Encyclopedia of Ecology, 2nd Edition Vol. 2
Elsevier, Oxford, p. 65 - 73
855. **Grimm-Seyfarth, A., Klenke, R.** (2019):
Wie findet man schwer zu erfassende Arten? Vorteile und Limitierungen von
Artenspürhunden
In: Schüler, C., Kaul, P. (Hrsg.)
Faszinosum Spürhunde - Dem Geruch auf der Spur. Tagungsergebnisse des 4. Symposiums für Odorologie im Diensthundewesen an der Hochschule Bonn-Rhein-Sieg
Schriften der Arbeitsgemeinschaft Odorologie e.V. Band 2
Verlag Dr. Kovač, Hamburg, S. 40 - 47
856. **Groß, M.** (2019):
An der langen aber straffen Leine halten: Ambivalenz der Kontrolle und Nichtwissen in
Realexperimenten
In: Fischer, K., Parthey, H. (Hrsg.)
Ambivalenz der Wissenschaft : Wissenschaftsforschung Jahrbuch 2017
wvb Wissenschaftlicher Verlag, Berlin, S. 39 - 56
857. Großmann, K., Alexandri, G., Budnik, M., **Haase, A.**, Haid, C., Hettke, C., Kullmann,
K., Shokry, G. (2019):
Living with diversity or living with difference? International perspectives on everyday
perceptions of the social composition of diverse neighbourhoods
In: Oosterlynck, S., Verschraegen, G., van Kempen, R. (eds.)
Divercities : understanding super diversity in deprived and mixed neighbourhoods
Policy Press, Bristol, p. 211 - 234
858. **Gross, M.** (2019):
Real-world experiments as generators of sociotechnical change
In: Büscher, C., Schippl, J., Sumpf, P. (eds.)
*Energy as a sociotechnical problem : an interdisciplinary perspective on control, change,
and action in energy transformations*
Routledge, London, p. 125 - 138
859. **Gross, M.** (2019):
Ecology
In: Ritzer, G., Rojek, C. (eds.)
The Blackwell encyclopedia of sociology, 2nd edition
Wiley, Hoboken, NJ,

860. Guimarães-Steinicke, C., Weigelt, A., Ebeling, A., Eisenhauer, N., Duque-Lazo, J., Reu, B., **Roscher, C.**, Schumacher, J., Wagg, C., Wirth, C. (2019): Terrestrial laser scanning reveals temporal changes in biodiversity mechanisms driving grassland productivity
In: Eisenhauer, N., Bohan, D.A., Dumbrell, A.J. (eds.)
Mechanisms underlying the relationship between biodiversity and ecosystem function
Adv. Ecol. Res. 61
Academic Press / Elsevier, London, p. 133 - 161
861. **Haase, D.** (2019):
Urban telecouplings
In: Friis, C., Nielsen, J.Ø. (eds.)
Telecoupling. Exploring land-use change in a globalised world
Palgrave Studies in Natural Resource Management
Palgrave Macmillan, Cham, p. 261 - 280
862. **Haase, D., Haase, A., Rink, D., Quanz, J.** (2019):
Shrinking cities and ecosystem services: opportunities, planning, challenges, and risks
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 271 - 277
863. **Haase, D.** (2019):
The rural-to-urban gradient and ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 141 - 146
864. Hammen, V.C., **Settele, J.** (2019):
Biodiversity and the loss of biodiversity affecting human health
In: Nriagu, J.O. (ed.)
Encyclopedia of environmental health, 2nd edition
Elsevier, Amsterdam, p. 340 - 350
865. **Hansjürgens, B., Möckel, S., Bartkowski, B.** (2019):
Boden und Bodenschutz als zentrales Handlungsfeld der Umweltpolitik
In: Dabrowski, M., Wolf, J., Abmeier, K. (Hrsg.)
Umweltpolitik: global und gerecht
Sozialethik konkret
Ferdinand Schöningh, Paderborn , S. 111 - 144

866. **Henle, K.**, Tzanopoulos, J., Marty, P., Grobelnik, V., Mathevot, R., Hetterley, A.V. (2019):
Scaling sensitivity of drivers
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 39 - 50
867. Holländer, R., **Reese, M.**, Scheele, U., Thärichen, H. (2019):
Abfallwirtschaft im Wandel – Herausforderung für die Kommunen
In: Mühlenkamp, H., Schulz-Nieswandt, F., Krajewski, M., Theuvsen, L., Ackermann, T. (Hrsg.)
Öffentliche Wirtschaft : Handbuch für Wissenschaft und Praxis
Nomos, Baden-Baden, S. 603 - 638
868. **Jax, K.** (2019):
Taking social responsibility in using ecosystem services concepts: ethical issues of linking ecosystems and human well-being
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 25 - 31
869. Jendroska, J., **Reese, M.** (2019):
The courts as guardians of the environment – new developments in access to justice and environmental litigation
The international comparative legal guide to environment & climate change law 2019. 16th ed.
International Comparative Legal Guides (ICLG), London, p. 5 - 9
870. **Kabisch, S.** (2019):
Leipzig-Grünau
In: John, U., von Hehl, U. (Hrsg.)
Geschichte der Stadt Leipzig ; Band 4: Vom Ersten Weltkrieg bis zur Gegenwart
Leipziger Universitätsverlag, Leipzig, S. 852 - 856
871. **Kabisch, S.** (2019):
Leipzig-Grünau: Dynamiken und Persistenzen einer Großwohnsiedlung
In: Pasternack, P. (Hrsg.)
Das andere Bauhaus-Erbe : Leben in den Plattenbausiedlungen heute
Berliner Wissenschafts-Verlag, BWV, Berlin, S. 85 - 97

872. Kersting, F., **Lepenies, R.**, Neef, T. (2019):
Mehr als nur Werkzeuge. Kritik an Experimenten in der Ökonomik
In: Petersen, D.J., Willers, D., Schmitt, E.M., Birnbaum, R., Meyerhoff, J.H.E., Gießler, S., Roth, B. (Hrsg.)
Perspektiven einer pluralen Ökonomik
Wirtschaft + Gesellschaft
Springer / VS, Wiesbaden, S. 209 - 229
873. **Knapp, S., Jaganmohan, M., Schwarz, N.** (2019):
Climate regulation by diverse urban green spaces: risks and opportunities related to climate and land use change
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 162 - 172
874. **Knapp, S.** (2019):
The link between diversity, ecosystem functions, and ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 13 - 15
875. **Knapp, S., Winter, M., Zehnsdorf, A., Kühn, I.** (2019):
How good are bad species?
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 215 - 223
876. **Knillmann, S., Liess, M.** (2019):
Pesticide effects on stream ecosystems
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 211 - 214
877. **Koch, F., Schlink, U., Bilke, L., Helbig, C.** (2019):
How to reconcile the ecosystem service of regulating the microclimate with urban planning projects on brownfields? The case study Bayerischer Bahnhof in Leipzig, Germany
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 147 - 156

878. **Köck, W.** (2019):
Begrüßung und einführende Worte zum 13. DNRT »Naturschutzrecht und Landwirtschaft«
In: Dzybulka, D., Köck, W. (Hrsg.)
Landwirtschaft und Naturschutzrecht : Beiträge des 13. Deutschen Naturschutzrechtstages in Leipzig
Beiträge zum Landwirtschaftsrecht und zur Biodiversität 13
Nomos, Baden-Baden, S. 17 - 19
879. **Köck, W.** (2019):
Naturschutz und Landwirtschaft: Regelungsmöglichkeiten und -grenzen im BNatSchG im Verhältnis zum (Umwelt- und Agrar-)Fachrecht
In: Dzybulka, D., Köck, W. (Hrsg.)
Landwirtschaft und Naturschutzrecht : Beiträge des 13. Deutschen Naturschutzrechtstages in Leipzig
Beiträge zum Landwirtschaftsrecht und zur Biodiversität 13
Nomos, Baden-Baden, S. 189 - 208
880. **Köck, W.** (2019):
German water protection law with a particular focus on waste water management
In: Köster, S., Reese, M., Zuo, J. (eds.)
Urban water management for future cities : technical and institutional aspects from Chinese and German perspective
Future City Vol. 12
Springer International Publishing, Cham, p. 369 - 390
881. **Köck, W.** (2019):
Der Rechtsrahmen für Wasserversorgung und Abwasserentsorgung in Deutschland:
Verfassungsrecht – Europarecht – Verwaltungsrecht – Organisation
In: Mühlenkamp, H., Schulz-Nieswandt, F., Krajewski, M., Theuvsen, L., Ackermann, T. (Hrsg.)
Öffentliche Wirtschaft : Handbuch für Wissenschaft und Praxis
Nomos, Baden-Baden, S. 574 - 602
882. **Kolditz, O.**, Berendonk, T.U., **Chen, C.**, Fuchs, L., Haase, M., Jungmann, D., Kalbacher, T., Krebs, P., Moldaenke, C., **Müller, R.**, Neubert, F., **Rink, K.**, **Rinke, K.**, Sachse, A., **Walther, M.** (2019):
Managing water resources for urban catchments
In: Sachse, A., Liao, Z., Zhu, W., Dai, X., Kolditz, O. (eds.)
Chinese water systems. Volume 2: Managing water resources for urban catchments: Chaohu
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 35 - 85

883. **Kolditz, O.**, Yue, T.X. (2019):
The Poyang Lake cooperation group
In: Yue, T.X., Nixdorf, E., Zhou, C., Xu, B., Zhao, N., Fan, Z., Huang, X., Chen, C., Kolditz, O. (eds.)
Chinese water systems. Volume 3: Poyang Lake Basin
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 19 - 23
884. Korn, H., Stadler, J., **Bonn, A.** (2019):
Global Developments: Policy support for linking biodiversity, health and climate change
In: Marselle, M.R., Stadler, J., Korn, H., Irvine, K.N., Bonn, A. (eds.)
Biodiversity and health in the face of climate change
Springer, Cham, p. 315 - 328
885. Kruse, S., Abeling, T., Deeming, H., Fordham, M., Forrester, J., Jülich, S., Karanci, A.N., **Kuhlicke, C.**, Pelling, M., Pedoth, L., Schneiderbauer, S., Sharpe, J. (2019):
The emBRACE resilience framework : developing an integrated framework for evaluating community resilience to natural hazards
In: Deeming, H., Fordham, M., Kuhlicke, C., Pedoth, L., Schneiderbauer, S., Shreve, C. (eds.)
Framing community disaster resilience : resources, capacities, learning, and action
Wiley, Hoboken, NJ, p. 79 - 96
886. **Kuhlicke, C.**, Begg, C., Kunath, A., Beyer, M. (2019):
Resilience, the limits of adaptation and the need for transformation in the context of multiple flood events in Central Europe
In: Deeming, H., Fordham, M., Kuhlicke, C., Pedoth, L., Schneiderbauer, S., Shreve, C. (eds.)
Framing community disaster resilience : resources, capacities, learning, and action
Wiley, Hoboken, NJ, p. 159 - 176
887. **Kuhlicke, C.** (2019):
Embracing community resilience in ecosystem management and research
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 17 - 20
888. Kullmann, K., Großmann, K., **Haase, A.**, Haid, C. (2019):
Lokale Unternehmen im Quartier – Bindungen, Interaktionen, Anpassung an den Quartierswandel
In: Niermann, O., Schnur, O., Drilling, M. (Hrsg.)
Ökonomie im Quartier : von der sozialräumlichen Intervention zur Postwachstumsgesellschaft
Springer VS, Wiesbaden , S. 93 - 116

889. Kuntze, K., Eisenmann, H., **Richnow, H.-H.**, Fischer, A. (2019): Compound-specific stable isotope analysis (CSIA) for evaluating degradation of organic pollutants: an overview of field case studies
In: Boll, M. (ed.)
Aerobic utilization of hydrocarbons, oils, and lipids
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham, p. 1 - 39
890. Kunze, C., **Lehmann, P.** (2019): The myth of the dark side of the Energiewende
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 255 - 263
891. Lakner, S., Holst, C., **Dittrich, A.**, Hoyer, C., **Pe'er, G.** (2019): Impacts of the EU's common agricultural policy on biodiversity and ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 383 - 389
892. Lange, M., Koller-France, E., **Hildebrandt, A.**, Oelmann, Y., Wilcke, W., Gleixner, G. (2019): How plant diversity impacts the coupled water, nutrient and carbon cycles
In: Eisenhauer, N., Bohan, D.A., Dumbrell, A.J. (eds.)
Mechanisms underlying the relationship between biodiversity and ecosystem function
Adv. Ecol. Res. 61
Academic Press / Elsevier, London, p. 185 - 219
893. **Lauf, T.**, Ek, K., **Gawel, E.**, **Lehmann, P.**, Söderholm, P. (2019): Wind power deployment as a stressor for ecosystem services: a comparative case study from Germany and Sweden
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 125 - 128
894. **Lausch, A.**, Leitão, P.J. (2019): Monitoring vegetation diversity and health through spectral traits and trait variations based on hyperspectral remote sensing
In: Thenkabail, P.S., Huete, A., Lyon, J.G. (eds.)
Hyperspectral remote sensing of vegetation (Second Edition, Four Volume Set). Volume I: Fundamentals, sensor systems, spectral libraries, and data mining for vegetation, Chapter 4
CRC Press, Boca Raton, FL, p. 95 - 126

895. **Lehmann, P., Gawel, E., Strunz, S.** (2019):
EU climate and energy policy beyond 2020: are additional targets and Instruments for renewables economically reasonable?
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 11 - 26
896. **Lepenies, R.**, Małecka, M. (2019):
Behaviour change: extralegal, apolitical, scientistic?
In: Straßheim, H., Beck, S. (eds.)
Handbook of behavioural change and public policy
Edward Elgar, Cheltenham, p. 344 - 360
897. **Ludwig, G.** (2019):
A step further towards a European energy transition: the “Clean Energy Package” from a legal point of view
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 83 - 94
898. **Mackenzie, K., Georgi, A.** (2019):
NZVI synthesis and characterization
In: Phenrat, T., Lowry, G. (eds.)
Nanoscale zerovalent iron particles for environmental restoration : from fundamental science to field scale engineering applications
Springer International Publishing, Cham, p. 45 - 95
899. **Markus, T.** (2019):
Regulation of marine capture fisheries
In: Lees, E., Viñuales, J. E. (eds.)
The Oxford handbook of comparative environmental law
Oxford University Press, Oxford, p. 489 - 508
900. **Markus, T.**, Silva-Sánchez, P.P. (2019):
Regulating ship-generated noise as a new form of vessel-source pollution
In: Chircop, A., Coffen-Smout, S., McConell, M.L. (eds.)
Ocean Yearbook 33
Brill, Leiden, p. 487 - 512
901. **Marselle, M.R.** (2019):
Theoretical foundations of biodiversity and mental well-being relationships
In: Marselle, M.R., Stadler, J., Korn, H., Irvine, K.N., Bonn, A. (eds.)
Biodiversity and health in the face of climate change
Springer, Cham, p. 133 - 158

902. **Marselle, M.R.**, Martens, D., Dallimer, M., Irvine, K.N. (2019):
Review of the mental health and well-being benefits of biodiversity
In: Marselle, M.R., Stadler, J., Korn, H., Irvine, K.N., Bonn, A. (eds.)
Biodiversity and health in the face of climate change
Springer, Cham, p. 175 - 211
903. **Marselle, M.R.**, Stadler, J., Korn, H., Irvine, K.N., **Bonn, A.** (2019):
Biodiversity and health in the face of climate change: Challenges, opportunities and
evidence gaps
In: Marselle, M.R., Stadler, J., Korn, H., Irvine, K.N., Bonn, A. (eds.)
Biodiversity and health in the face of climate change
Springer, Cham, p. 1 - 13
904. **Marselle, M.R.**, Stadler, J., Korn, H., Irvine, K.N., **Bonn, A.** (2019):
Biodiversity and health in the face of climate change: Perspectives for science, policy and
practice
In: Marselle, M.R., Stadler, J., Korn, H., Irvine, K.N., Bonn, A. (eds.)
Biodiversity and health in the face of climate change
Springer, Cham, p. 451 - 472
905. **Marx, A.**, Erhard, M., **Thober, S.**, **Kumar, R.**, **Schäfer, D.**, **Samaniego, L.**, **Zink, M.**
(2019):
Climate change as driver for ecosystem services risk and opportunities
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 173 - 178
906. **Meyer, V.**, **Schwarze, R.** (2019):
The economics and management of flood risk in Germany
In: Köster, S., Reese, M., Zuo, J. (eds.)
*Urban water management for future cities : technical and institutional aspects from
Chinese and German perspective*
Future City Vol. 12
Springer International Publishing, Cham, p. 473 - 495
907. **Michalski, S.G.** (2019):
The evidence for genetic diversity effects on ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 51 - 55

908. **Möckel, S.** (2019):
Gute fachliche Praxis, Eingriffsregelung und Landwirtschaft
In: Dzybulka, D., Köck, W. (Hrsg.)
Landwirtschaft und Naturschutzrecht : Beiträge des 13. Deutschen Naturschutzrechtstages in Leipzig
Beiträge zum Landwirtschaftsrecht und zur Biodiversität 13
Nomos, Baden-Baden, S. 97 - 107
909. Neubert, F., Haase, M., **Rink, K.**, **Kolditz, O.** (2019):
WP-D: Environmental information system
In: Sachse, A., Liao, Z., Zhu, W., Dai, X., Kolditz, O. (eds.)
Chinese water systems. Volume 2: Managing water resources for urban catchments: Chaochu
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 207 - 229
910. **Nixdorf, E.** (2019):
Modelling seasonal groundwater flow dynamics in the Poyang Lake Core Region
In: Yue, T.X., Nixdorf, E., Zhou, C., Xu, B., Zhao, N., Fan, Z., Huang, X., Chen, C., Kolditz, O. (eds.)
Chinese water systems. Volume 3: Poyang Lake Basin
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 67 - 88
911. **Nixdorf, E., Zhou, C.** (2019):
Background information about Poyang Lake Basin
In: Yue, T.X., Nixdorf, E., Zhou, C., Xu, B., Zhao, N., Fan, Z., Huang, X., Chen, C., Kolditz, O. (eds.)
Chinese water systems. Volume 3: Poyang Lake Basin
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 3 - 17
912. Noh, S.J., Weerts, A., **Rakovec, O.**, Lee, H., Seo, D.-J. (2019):
Assimilation of streamflow observations
In: Duan, Q., Pappenberger, F., Thielen, J., Wood, A., Cloke, H., Schaake, J. (eds.)
Handbook of hydrometeorological ensemble forecasting, Vol. 1
Springer, Berlin, Heidelberg, p. 745 - 780
913. Pohl, M., Engelmann, C., **Walther, M.** (2019):
WP-E: Groundwater systems
In: Sachse, A., Liao, Z., Zhu, W., Dai, X., Kolditz, O. (eds.)
Chinese water systems. Volume 2: Managing water resources for urban catchments: Chaochu
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 231 - 242

914. **Priess, J.A., Hoyer, C., Jäckel, G., Lang, E.O., Pomm, S., Schweitzer, C.** (2019): Selected trade-offs and risks associated with land use transitions in Central Germany
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 129 - 134
915. **Priess, J., Hauck, J., Haines-Young, R., Alkemade, R., Mandryk, M., Veerkamp, C.J., Bela, G., Berry, P., Dunford, R., Harrison, P., Keune, H., Kok, M., Koppenothen, L., Lazarova, T., Maes, J., Pataki, G., Preda, E., Schleyer, C., Vadineanu, A., Zulian, G.** (2019): New EU-level scenarios on the future of ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 135 - 140
916. **Purkus, A., Gawel, E., Thrän, D.** (2019): The role of a renewable energy target for the transport sector beyond 2020: lessons learned from EU biofuel policy
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 527 - 542
917. **Reese, M.** (2019): Urban water governance in Europe and in China: key challenges, benchmarks and approaches
In: Köster, S., Reese, M., Zuo, J. (eds.)
Urban water management for future cities : technical and institutional aspects from Chinese and German perspective
Future City Vol. 12
Springer International Publishing, Cham, p. 249 - 282
918. **Reese, M.** (2019): Distribution of powers
In: Lees, E., Viñuales, J. E. (eds.)
The Oxford handbook of comparative environmental law
Oxford University Press, Oxford, p. 678 - 702
919. **Ring, I., Schröter-Schlaack, C.** (2019): Policy mixes for sustained ecosystem service provision
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 321 - 326

920. **Rink, D., Kabisch, S.** (2019):
Von der Schrumpfung zum Wachstum – demographische und ökonomisch-soziale Entwicklungen
In: John, U., von Hehl, U. (Hrsg.)
Geschichte der Stadt Leipzig ; Band 4: Vom Ersten Weltkrieg bis zur Gegenwart
Leipziger Universitätsverlag, Leipzig, S. 842-851 - 856-861
921. **Rinke, K., Keller, P.S., Kong, X., Borchardt, D., Weitere, M.** (2019):
Ecosystem services from inland waters and their aquatic ecosystems
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 191 - 192
922. Rybicki, M., Moldaenke, C., **Rinke, K.**, Dahlhaus, H., Klingbeil, K.,
Holtermann, P.L., Hu, W., Wang, H.-Z., Wang, H., Liu, M., Zhu, J., Ye, Z.,
Peng, Z., **Boehrer, B.**, Jungmann, D., Berendonk, T.U., **Kolditz, O.**, **Frassl, M.A.**
(2019):
WP-C: A step towards secured drinking water: Development of an early warning system for lakes
In: Sachse, A., Liao, Z., Zhu, W., Dai, X., Kolditz, O. (eds.)
Chinese water systems. Volume 2: Managing water resources for urban catchments: Chaohu
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 159 - 205
923. Sachse, A., Liao, Z., Hu, W., Dai, X., **Kolditz, O.** (2019):
Introduction
In: Sachse, A., Liao, Z., Zhu, W., Dai, X., Kolditz, O. (eds.)
Chinese water systems. Volume 2: Managing water resources for urban catchments: Chaohu
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 1 - 34
924. **Schima, R.**, Paschen, M., **Dietrich, D.**, **Bumberger, J.**, **Goblirsch, T.** (2019):
City of the future: urban monitoring based on smart sensors and open technologies
In: Benavente-Peces, C., Ahrens, A., Camp, O. (eds.)
Proceedings of the 8th International Conference on Sensor Networks (SENSORNETS 2019), Prague, Czech Republic, February 26-27, 2019
Vol. 1
SCITEPRESS - Science and Technology Publications, Setúbal, p. 116 - 120

925. **Scholz, M.**, Riedel, J., Seele, C., Engelmann, R., Heinrich, J., **Henle, K.**, Herkelrath, A., **Kasperidus, H.D.**, Kirsten, F., **Löffler, F.**, **Masurowski, F.**, **Vieweg, M.**, Wirth, C., Sahlbach, T. (2019): Das Projekt Lebendige Luppe – ausgewählte wasserwirtschaftliche Aspekte der Leipziger Nordwestaue
DWA Jahrbuch 2019 Gewässer-Nachbarschaften : Schulung und Erfahrungsaustausch, naturnahe Gewässerunterhaltung, präventiver Hochwasserschutz
Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall e. V. [DWA] - Landesverband Sachsen/Thüringen, Dresden, S. 162 - 175
926. **Schröter, M.**, **Bonn, A.**, **Klotz, S.**, **Seppelt, R.**, **Baessler, C.** (2019): Ecosystem services: understanding drivers, opportunities, and risks to move towards sustainable land management and governance
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 401 - 403
927. **Schröter, M.**, **Kuhlicke, C.**, **Förster, J.**, **Baessler, C.**, **Bonn, A.** (2019): The risk to ecosystems and ecosystem services: a framework for the Atlas of ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 3 - 6
928. **Schröter, M.**, **Ring, I.**, **Schröter-Schlaack, C.**, **Bonn, A.** (2019): The ecosystem service concept: linking ecosystems and human wellbeing
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 7 - 11
929. **Schröter, M.** (2019): Introduction to part IV: Societal responses
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 311 - 313
930. **Schröter-Schlaack, C.**, **Hansjürgens, B.**, **Brenck, M.** (2019): The TEEB approach for demonstrating societal risks to ecosystem services: taking grassland conservation as an example
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 343 - 346

931. **Schröter-Schlaack, C., Hansjürgens, B.** (2019):
Governance risks in designing policy responses to manage ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 315 - 320
932. **Schulz-Zunkel, C., Scholz, M., Kasperidus, H.D., Mehl, D., Henle, K.** (2019):
The loss of ecosystem functions in riverine floodplains in Germany
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 361 - 364
933. **Schweiger, O., Franzén, M., Frenzel, M., Galpern, P., Kerr, J., Papanikolaou, A.D., Rasmont, P.** (2019):
Minimising risks of global change by enhancing resilience of pollinators in agricultural systems
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 105 - 111
934. **Seppelt, R., Beckmann, M., Ceauşu, S., Cord, A.F., Gerstner, K., Gurevitch, J., Kambach, S., Klotz, S., Mendenhall, C., Phillips, H.R.P., Powell, K., Verburg, P.H., Verhagen, W., Winter, M., Newbold, T.** (2019):
Trade-offs and synergies between biodiversity conservation and productivity in the context of increasing demands on landscapes
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 251 - 256
935. **Seppelt, R., Manceur, A.M., Liu, J., Fenichel, E.P., Klotz, S.** (2019):
Synchronized peak rate years of global resources use imply critical trade-offs in appropriation of natural resources and ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 301 - 307

936. **Settele, J., Spangenberg, J.H., Heong, K.L., Kühn, I., Klotz, S., Arida, G., Burkhard, B., Bustamante, J.V., Cabbigat, J., Canh, L.X., Catindig, J.L.A., Chien, H.V., Cuong, L.Q., Escalada, M., Görg, C., Grescho, V., Grossmann, S., Hadi, B.A.R., Harpke, A., Hass, A.L., Hirneisen, N., Horgan, F.G., Hotes, S., Jahn, R., Klotzbücher, A., Klotzbücher, T., Langerwisch, F., Magcale-Macandog, D.B., Manh, N.H., Marion, G., Marquez, L., Ott, J., Penev, L., Rodriguez-Labajos, B., Sann, C., Sattler, C., Schädler, M., Scheu, S., Schmidt, A., Schrader, J., Schweiger, O., Seppelt, R., Sinh, N.V., Stoev, P., Stoll-Kleemann, S., Tekken, V., Thonicke, K., Trisyono, Y.A., Truong, D.T., Tuan, L.Q., Türke, M., Václavík, T., Vetterlein, D., Villareal, S., Westphal, C., Wiemers, M.** (2019):
Rice ecosystem services in South-East Asia: the LEGATO project, its approaches and main results with a focus on biocontrol services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 373 - 382
937. Siebert, J., Thakur, M.P., **Reitz, T., Schädler, M., Schulz, E., Yin, R.**, Weigelt, A., Eisenhauer, N. (2019):
Extensive grassland-use sustains high levels of soil biological activity, but does not alleviate detrimental climate change effects
In: Bohan, D., Dumbrell, A. (eds.)
Resilience in complex socioecological systems
Adv. Ecol. Res. 60
Academic Press / Elsevier, London, p. 25 - 58
938. Straßheim, H., **Beck, S.** (2019):
Introduction to the *Handbook of behavioural change and public policy*
In: Straßheim, H., Beck, S. (eds.)
Handbook of behavioural change and public policy
Edward Elgar, Cheltenham, p. 1 - 21
939. **Strunz, S., Gawel, E.** (2019):
Import dependency and the energy transition: a new risk field of security of supply?
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 301 - 310
940. **Strunz, S., Gawel, E., Lehmann, P.** (2019):
On the alleged need to strictly “Europeanize” the German Energiewende
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 227 - 239

941. **Strunz, S., Gawel, E., Lehmann, P.** (2019):
Between energy transition and internal market agenda: the impact of the EU Commission
as a distinct energy policy actor
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 413 - 430
942. **Strunz, S., Gawel, E., Lehmann, P., Söderholm, P.** (2019):
Policy convergence as a multi-faceted concept: the case of renewable energy policies in
the EU
In: Gawel, E., Strunz, S., Lehmann, P., Purkus, A. (eds.)
The European dimension of Germany's energy transition : opportunities and conflicts
Springer Nature, Cham, p. 147 - 171
943. **Strunz, S., Gawel, E., Purkus, A.** (2019):
European energy governance landscapes: energy-related pressures on ecosystem services
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 119 - 124
944. **Ulbrich, K., Kühn, E., Schweiger, O., Settele, J.** (2019):
How many butterflies will lose their habitats? Communicating biodiversity research using
the example of European butterflies
In: Zandvliet, D. B. (ed.)
Culture and environment : weaving new connections
Researching environmental learning 4
Brill Sense, Leiden, p. 93 - 106
945. **Václavík, T., Lautenbach, S., Kuemmerle, T., Seppelt, R.** (2019):
Mapping land system archetypes to understand drivers of ecosystem service risks
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 69 - 75
946. Vogel, A., Ebeling, A., Gleixner, G., **Roscher, C.**, Scheu, S., Ciobanu, M., Koller-France,
E., Lange, M., Lochner, A., Meyer, S.T., Oelmann, Y., Wilcke, W., Schmid, B.,
Eisenhauer, N. (2019):
A new experimental approach to test why biodiversity effects strengthen as ecosystems
age
In: Eisenhauer, N., Bohan, D.A., Dumbrell, A.J. (eds.)
Mechanisms underlying the relationship between biodiversity and ecosystem function
Adv. Ecol. Res. 61
Academic Press / Elsevier, London, p. 221 - 264

947. Vogel, A., Manning, P., Cadotte, M.W., Cowles, J., Isbell, F., Jousset, A.L.C., Kimmel, K., Meyer, S.T., Reich, P.B., **Roscher, C.**, Scherer-Lorenzen, M., Tilman, D., Weigelt, A., Wright, A.J., Eisenhauer, N., Wagg, C. (2019): Lost in trait space: species-poor communities are inflexible in properties that drive ecosystem functioning
In: Eisenhauer, N., Bohan, D.A., Dumbrell, A.J. (eds.)
Mechanisms underlying the relationship between biodiversity and ecosystem function
Adv. Ecol. Res. 61
Academic Press / Elsevier, London, p. 91 - 131
948. **Vogel, H.-J., Wollschläger, U.**, Helming, K., Heinrich, M., Willms, M., Wiesmeier, M., Russell, D., **Franko, U.** (2019): Assessment of soil functions affected by soil management
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 77 - 82
949. **Völker, J., Borchardt, D.** (2019): Drinking water quality at risk: a European perspective
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 205 - 210
950. **Wick, L.Y., Chatzinotas, A.** (2019): Capacity of ecosystems to degrade anthropogenic chemicals
In: Schröter, M., Bonn, A., Klotz, S., Seppelt, R., Baessler, C. (eds.)
Atlas of ecosystem services : drivers, risks, and societal responses
Springer International Publishing, Cham, p. 179 - 182
951. **Wiegand, T.**, Wiegand, K., **Pütz, S.** (2019): Grassland models (updated: 2018)
In: Fath, B.D. (ed.)
Encyclopedia of Ecology, 2nd Edition Vol. 2
Elsevier, Oxford, p. 105 - 115
952. Wierckx, N., Narancic, T., **Eberlein, C.**, Wei, R., Drzyzga, O., Magnin, A., Ballerstedt, H., Kenny, S., Pollet, E., Avérous, L., O'Connor, K.E., Zimmermann, W., **Heipieper, H.J.**, Prieto, A., Jiménez, J., Blank, L.M. (2019): Plastic biodegradation: challenges and opportunities
In: Steffan, R. (ed.)
Consequences of microbial interactions with hydrocarbons, oils, and lipids: Biodegradation and bioremediation
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham, p. 333 - 361

953. **Yan, C., Rink, K., Bilke, L., Nixdorf, E., Yue, T.X., Kolditz, O.** (2019):
Virtual geographical environment-based environmental information system for Poyang
Lake Basin
In: Yue, T.X., Nixdorf, E., Zhou, C., Xu, B., Zhao, N., Fan, Z., Huang, X., Chen, C.,
Kolditz, O. (eds.)
Chinese water systems. Volume 3: Poyang Lake Basin
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 293 - 308
954. **Zhou, C.** (2019):
Bibliometric study of scientific literature on Poyang Lake
In: Yue, T.X., Nixdorf, E., Zhou, C., Xu, B., Zhao, N., Fan, Z., Huang, X., Chen, C.,
Kolditz, O. (eds.)
Chinese water systems. Volume 3: Poyang Lake Basin
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 25 - 38

Berichte

955. **Bartkowski, B.**, Droste, N., **Ließ, M.**, Sidemo-Holm, W., **Weller, U.**, Brady, M.V. (2019): Implementing result-based agri-environmental payments by means of modelling
UFZ-Diskussionspapiere 5/2019
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 28 pp.
956. Engelmann, R.A., Haack, N., **Henle, K.**, **Kasperidus, H.D.**, Nissen, S., Schlegel, M., **Scholz, M.**, Seele-Dilbat, C., Wirth, C. (2019): Reiner Prozessschutz gefährdet Artenvielfalt im Leipziger Auwald
UFZ-Diskussionspapiere 8/2019
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 14 S.
957. Gerhold, M., Glum, A.S., **Häßler, P.**, Hemmerling, M., Kinner, A., Kühl, L. (2019): Technologieentwicklung in der Rohstofferkundung – soziologische Perspektiven
UFZ-Diskussionspapiere 3/2019
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 44 S.
958. Groß, C., **Schwarze, R.**, Wagner, G.G. (2019): Maßnahmen für eine zukunftsgerechte Naturgefahren-Absicherung
Veröffentlichungen des Sachverständigenrats für Verbraucherfragen
Sachverständigenrat für Verbraucherfragen (SVRV), Berlin, 52 S.
959. **Haase, A.**, **Schmidt, A.** (2019): Grüne Freiräume in Ankunftsquartieren: Funktionen und Herausforderungen für ihre kooperative Entwicklung
UFZ-Diskussionspapiere 4/2019
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 46 S.
960. Happe, A.-K., **Wolf, C.**, **Raab, K.**, **Hauck, J.**, Scheve, J., Buttigieg, P.L., **Jax, K.**, Krause, G. (2019): INTERNAS: Wissenstransferprozess zur Übertragung internationaler Umweltberichte in die deutsche Politik und Praxis
UFZ-Diskussionspapiere 7/2019
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 44 S.
961. **Intelmann, D.** (2019): Healthy City – Einführung in ein Stadtkonzept
UFZ-Diskussionspapiere 2/2019
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 27 S.

962. **Klauer, B., Aicher, C.**, Bratan, T., Eberle, U., Hillenbrand, T., Kümmerer, K., Reuter, W., **Schiller, J., Schulte-Römer, N.**, Schramm, E., Tettenborn, F., Völker, C., Walz, A. (2019):
Technikfolgenabschätzung (TA) Arzneimittelrückstände in Trinkwasser und Gewässern
Verhandlungen des Deutschen Bundestages. Drucksachen 19/16430
Bundesanzeiger Verlag GmbH, Köln, 146 S.
963. **Klauer, B., Aicher, C.**, Bratan, T., Eberle, U., Hillenbrand, T., Kümmerer, K., Reuter, W., **Schiller, J., Schulte-Römer, N.**, Schramm, E., Tettenborn, F., Völker, C., Walz, A. (2019):
Arzneimittelrückstände in Trinkwasser und Gewässern
TAB Arbeitsbericht 183
Büro für Technikfolgenabschätzung beim Deutschen Bundestag (TAB), Berlin, 208 S.
964. Meyer, P.B., **Schwarze, R.** (2019):
Financing climate-resilient infrastructure: a political-economy framework
UFZ-Diskussionspapiere 1/2019
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 16 pp.
965. Niggli, U., Gerowitt, B., Brühl, C., **Liess, M.**, Schulz, R., Bokelmann, W., **Altenburger, R.**, Büttner, C., Hartenbach, M., Heß, J., Märlander, B., Miedaner, T., Nödler, K., Petercord, R., Reineke, A., von Kröcher, C., Zwerger, P. (2019):
Pflanzenschutz und Biodiversität in Agrarökosystemen. Stellungnahme des
Wissenschaftlichen Beirats des Nationalen Aktionsplans zur nachhaltigen Anwendung
von Pflanzenschutzmitteln beim Bundesministerium für Ernährung und Landwirtschaft
Wissenschaftlicher Beirat des Nationalen Aktionsplans Pflanzenschutz beim BMEL,
Bundesanstalt für Landwirtschaft und Ernährung (BLE), Bonn, 48 S.
966. **Schröter-Schlaack, C., Aicher, C.**, Grünwald, R., Revermann, C., **Schiller, J.** (2019):
Das Potenzial algenbasierter Kraftstoffe für den Lkw-Verkehr. Sachstandsbericht zum
Monitoring »Nachhaltige Potenziale der Bioökonomie – Biokraftstoffe der 3. Generation«
TAB Arbeitsbericht 181
Büro für Technikfolgenabschätzung beim Deutschen Bundestag (TAB), Berlin, 152 S.
967. **Schröter-Schlaack, C., Aicher, C.**, Grünwald, R., Revermann, C., **Schiller, J.** (2019):
Technikfolgenabschätzung (TA) Das Potenzial algenbasierter Kraftstoffe für den
Lkw-Verkehr
Verhandlungen des Deutschen Bundestages. Drucksachen 19/13474
Bundesanzeiger Verlag GmbH, Köln, 117 S.
968. **Schwarze, R.** (2019):
Institutionenökonomischer Vergleich der Risikotransfersysteme bezüglich
Elementarschäden in Europa
Studien und Gutachten im Auftrag des Sachverständigenrats für Verbraucherfragen
Sachverständigenrat für Verbraucherfragen (SVRV), Berlin, 23 S.

969. Sokolova, T., **Sushchenko, O.**, **Schwarze, R.** (2019):
Roadmap for a green financial policy in Ukraine under the EU Association Agreement
UFZ-Diskussionspapiere 6/2019
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 83 pp.
970. van Swaay, C.A.M., Dennis, E.B., Schmucki, R., Sevilleja, C., Balalaikins, M., Botham, M., Bourn, N., Brereton, T., Cancela, J.P., Carlisle, B., Chambers, P., Collins, S., Dopagne, C., Escobés, R., **Feldmann, R.**, Fernández-García, J.M., Fontaine, B., Gracianteraluceta, A., Harrower, C., **Harpke, A.**, Heliölä, J., Komac, B., **Kühn, E.**, Lang, A., Maes, D., Mestdagh, X., Middlebrook, I., Monasterio, Y., Munguira, M.L., Murray, T.E., **Musche, M.**, Őunap, E., Paramo, F., Pettersson, L.B., Piqueray, J., **Settele, J.**, Stefanescu, C., Švitra, G., Tiitsaar, A., Verovnik, R., Warren, M.S., Wynhoff, I., Roy, D.B. (2019):
The EU butterfly indicator for grassland species: 1990-2017. Technical report
Butterfly Conservation Europe, Wageningen, 23 pp.

Berichtartikel

971. **Fischer, C., Scholz, M., Kasperidus, H.D.**, Stammel, B., Gelhaus, M., Rumm, A., Foeckler, F., Damm, C., Horchler, P., Gerstner, L., Podschun, S.A., Pusch, M. (2019): River Ecosystem Service Index (RESI) – Analyse und Bewertung der Ökosystemleistung „Habitatbereitstellung“
Ergebnisse der Jahrestagung 2018 der Deutschen Gesellschaft für Limnologie (DGL) und der Deutschen und Österreichischen Sektion der Societas Internationalis Limnologiae (SIL) : Hochschule Rhein-Waal (HSRW), Kamp-Lintfort, Kamp-Lintfort, 10.-14. Sept. 2018
Eigenverlag der DGL, Essen, S. 104 - 112
972. **Fischer, H., Reese, M.** (2019):
Sumpfpflanzendächer – Rechtliche Rahmenbedingungen
In: Zehnsdorf, A., Trabitzsch, R. (Hrsg.)
Zum Thema Sumpfpflanzendächer - Projekt Forschungsgründach
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, S. 106 - 115
973. **Gerner, N.V.** (2019):
Methoden zur Charakterisierung von Exposition und Effekten auf Makrozoobenthos-Gemeinschaften in Multi-Stressor-Systemen
Ergebnisse der Jahrestagung 2018 der Deutschen Gesellschaft für Limnologie (DGL) und der Deutschen und Österreichischen Sektion der Societas Internationalis Limnologiae (SIL) : Hochschule Rhein-Waal (HSRW), Kamp-Lintfort, Kamp-Lintfort, 10.-14. Sept. 2018
Eigenverlag der DGL, Essen, S. 119 - 123
974. **Settele, J.** (2019):
Follow-up Prozesse für das globale IPBES-Assessment
Newsletter der Deutschen IPBES-Koordinierungsstelle 2019 / 2
Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) , Bonn, S. 5 - 7
975. **Trabitzsch, R., Zehnsdorf, A., Schlink, U., Bunge, D., Weiß, H.** (2019):
Parameterermittlung an Sumpfpflanzen in unterschiedlichem Maßstab
In: Zehnsdorf, A., Trabitzsch, R. (Hrsg.)
Zum Thema Sumpfpflanzendächer - Projekt Forschungsgründach
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, S. 93 - 99
976. **Willebrand, K.C.U., Friesen, J., Zehnsdorf, A.** (2019):
Trockenstress bei Sumpfpflanzendächern – Überleben ohne Bewässerung
In: Zehnsdorf, A., Trabitzsch, R. (Hrsg.)
Zum Thema Sumpfpflanzendächer - Projekt Forschungsgründach
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, S. 100 - 105

977. **Zehnsdorf, A., Knechtel, S., Trabitzsch, R.** (2019):
Sumpfpflanzendächer – Stand der Anwendung und Forschung
In: Zehnsdorf, A., Trabitzsch, R. (Hrsg.)
Zum Thema Sumpfpflanzendächer - Projekt Forschungsgründach
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, S. 6 - 13
978. **Zehnsdorf, A., Trabitzsch, R.** (2019):
Sumpfpflanzen zur Dachbegrünung
In: Zehnsdorf, A., Trabitzsch, R. (Hrsg.)
Zum Thema Sumpfpflanzendächer - Projekt Forschungsgründach
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, S. 4

Berichtherausgaben

979. Heißenhuber, A., Wiggering, H., Apel, I., Bach, M., Busse, T., Freibauer, A., Hülsbergen, K.-J., Krug, A., von Meyer, H., **Möckel, S.**, Holm-Müller, K., Niggli, U., Peterwitz, U., Ribbe, L., Winckler, C. (Hrsg., 2019): Landwirtschaft quo vadis? Agrar- und Ernährungssysteme der Zukunft – Vielfalt gewähren, Handlungsrahmen abstecken. Position der Kommission Landwirtschaft beim Umweltbundesamt (KLU) (Oktober 2019) Umweltbundesamt, Dessau-Roßlau, 52 S.
980. **Zehnsdorf, A., Trabitzsch, R.** (Hrsg., 2019): Zum Thema Sumpfpflanzendächer - Projekt Forschungsgründach Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 118 S.

Tagungsbeiträge

981. Fechner, T., Karl, L., **Ködel, U.** (2019):
A new approach to determine the damping ratio by multi-channel spectral analysis of seismic downhole data
Fifth International Conference on Engineering Geophysics (ICEG), 20.-24. October 2019, Al Ain - United Arab Emirates
p. 1 - 4
982. Heinzle, J., Konzett, M., **Siebert, C.**, Kraushaar, S. (2019):
Tracing discharge in the Southern Pyrenees
21st EGU General Assembly, EGU2019, Proceedings from the conference held 7-12 April, 2019 in Vienna, Austria
Geophysical Research Abstracts 21
European Geosciences Union (EGU), p. EGU2019-1553
983. **Koedel, U., Dietrich, P.**, Karl, L., Mackens, S., Fechner, T. (2019):
A CPT-based seismic tomographic system for geotechnical subsurface investigations and site assessment
In: Sigursteinsson, H., Erlingsson, S., Bessason, B. (eds.)
Proceedings of the XVII European Conference on Soil Mechanics and Geotechnical Engineering (ECSMGE-2019), Reykjavík, Iceland, 1 – 6 of September 2019, Geotechnical Engineering, foundation of the future
Icelandic Geotechnical Society, Reykjavík, p. 1 - 8
984. **Koedel, U., Karl, L., Dietrich, P.**, Fechner, T. (2019):
The benefit of using a novel CPT-based seismic tomographic system for geotechnical subsurface characterization
International Konferenz Novel Methods for Subsurface Characterization and Monitoring: From Theory to Practice (NovCare 2019), May 28-31, 2019 Waterloo/ Canada
p. 1 - 1
985. **Koedel, U., Karl, L., Mackens, S., Dietrich, P.**, Fechner, T. (2019):
Determination of dynamic soil parameters using a novel CPT-based seismic tomographic system
21st EGU General Assembly, EGU2019, Proceedings from the conference held 7-12 April, 2019 in Vienna, Austria
Geophysical Research Abstracts 21
European Geosciences Union (EGU), p. EGU2019-6632
986. **Mallast, U., Siebert, C.** (2019):
UAV in combination with a thermal infrared sensor for the use in groundwater research
21st EGU General Assembly, EGU2019, Proceedings from the conference held 7-12 April, 2019 in Vienna, Austria
Geophysical Research Abstracts 21
European Geosciences Union (EGU), p. EGU2019-15129

987. Meigen, C., Vogel, M., **Bumberger, J.** (2019):
MOPS – A feasibility study for working with GPS and sensor data in a medical context
In: Ganzha, M., Maciaszek, L., Paprzycki, M. (eds.)
Proceedings of the 2019 Federated Conference on Computer Science and Information Systems, September 1–4, 2019, Leipzig, Germany
Annals of Computer Science and Information Systems 18
Polish Information Processing Society, Warsaw, p. 621 - 624
988. **Tafarte, P., Lehmann, P.** (2019):
Trade-Offs associated with the spatial allocation of future onshore wind generation capacity-a case study for Germany
Proceedings of the 16th International Conference on the European Energy Market (EEM), 18-20 Sept. 2019 Ljubljana, Slovenia
p. 1 - 4
989. Zieffle, G., Bossart, P., Costabel, S., Czaikowski, O., Furche, M., Graupner, B.,
Hesser, J., Jaeggi, D., **Kolditz, O.**, Königer, F., Maßmann, J., **Rink, K.**, Schuhmann, R.,
Schuster, K., Vowinckel, B., Wieczorek, K. (2019):
Influence of humidity on cyclic and longterm deformations: CD-A experiment, Mont Terri rock laboratory
Berichtsband zur 10. CMM Tagung - Innovative Feuchtemessung in Forschung und Praxis: Material - Prozesse - Systeme, 10./11. Oktober 2019, Ettlingen, Germany
Kompetenzzentrum für Materialfeuchte (CMM), Karlsruhe, p. 65 - 78

Blogs

990. **Kühn, E.** (2019):
Tagfalter als Indikatoren für den Biodiversitätsverlust im Grünland
<http://www.eskp.de/>
991. Schmid, M., Bärenbold, F., **Boehrer, B.**, Darchambeau, F., Grilli, R., Triest, J., **von Tümpeling, W.** (2019):
Intercalibration campaign for gas concentration measurements in Lake Kivu. Report prepared for the Lake Kivu Monitoring Programme (LKMP) of the Energy Development Corporation Limited (EDCL), Kigali, Rwanda
<https://www.dora.lib4ri.ch/eawag>

UFZ-Autorenregister

A

Adrian, L.	79, 118, 156, 157, 484, 487, 658
Aicher, C.	962, 963, 966, 967
Al-Fathi, H.	8
Alhelou, R.	9
Allendorf, F.	10
Altenburger, R.	11, 70, 71, 72, 169, 361, 390, 465, 510, 513, 570, 583, 596, 600, 771, 965
Ammar, M.	596
Anders, J.	312
Anlanger, C.	213
Anton, C.	638
Apelt, B.	194, 381
Archidona-Yuste, A.	17
Arslan, M.	19, 283, 284, 473, 536, 563, 604, 634, 636, 768
Attinger, S.	34, 153, 260, 300, 556, 754
Aubron, T.	475, 476, 830
Auge, H.	87, 211, 314, 360, 488, 569, 614, 745
Aulhorn, S.	374
Auliya, M.	297
Ayllón, D.	21

B

Backmann, P.	27
Bader-Blukott, M.	596
Bärlund, I.	179
Baessler, C.	755, 827, 831, 926, 927
Baleiro, F.C.F.	29
Banitz, T.	30, 358
Banzhaf, E.	689, 690, 832
Baroni, G.	33, 34, 163, 326
Bartke, S.	136, 342, 396, 782
Bartkowski, B.	36, 181, 834, 835, 836, 837, 865, 955
Basso, S.	637
Batbayar, G.	40
Baumann, S.	160
Beck, S.	774, 828, 938
Becker, J.	185
Beckmann, M.	43, 77, 271, 934
Bedtke, N.	200, 534, 850
Begg, C.	886
Ben-Salem, N.	769
Benettoni, P.	45, 461
Benra, F.	49
Benra, F.C.R.	48
Berger, S.	614
Berger, U.	10, 594
Berghöfer, A.	710, 823
Beyer, M.	886
Bilke, L.	51, 352, 877, 953
Binder, M.	52, 161
Binder, S.	814
Birkigt, J.	702
Bittermann, K.	343
Bittner, L.	54, 55
Blagodatskaya, E.	215, 373, 650
Blagodatskaya, E.V.	366
Blaser, S.R.G.A.	186, 187
Bleicher, A.	46, 56, 126
Bloch, R.	57, 365
Böhme, A.	277

Boehrer, B.	60, 357, 698, 703, 922, 991
Boenecke, E.	440
Bönn, M.	25, 214
Boettger, T.	611
Bohn, F.	80, 177, 526, 847
Bohn, F.J.	414, 548
Bonk, F.	700
Bonn, A.	49, 154, 196, 329, 330, 348, 493, 770, 785, 787, 810, 825, 827, 846, 884, 903, 904, 926, 927, 928
Boog, J.	63, 64, 476
Borchardt, D.	282, 325, 333, 370, 371, 431, 706, 739, 740, 921, 949
Born, J.	65
Borsdorf, H.	290, 753
Bossdorf, O.	190
Bovet, J.	5, 67, 68, 83, 435, 791, 839
Brabender, M.	74
Brack, W.	11, 26, 57, 69, 70, 71, 72, 73, 82, 169, 185, 361, 363, 365, 425, 465, 510, 511, 512, 513, 608, 619, 664, 666, 771
Brandt, T.	773
Brauns, M.	74, 213, 315, 509, 713
Brenck, M.	930
Breulmann, M.	436
Brillinger, M.	7
Brizola Toscan, R.	312
Buchmann, C.M.	139, 220
Buchmann, T.	106
Buchwald, J.	99
Budhraja, R.	79
Bühler, B.	261, 262, 276, 660, 681
Bühler, K.	123, 261, 262, 276, 449
Büttner, L.	86
Büttner, O.	299, 739, 740, 742
Bumberger, J.	309, 377, 569, 574, 924, 987
Bunge, D.	975
Bunzel, K.	83
Busch, W.	11, 142, 390, 596, 600, 699
Buscot, F.	25, 214, 387, 472, 495, 501, 517, 518, 519, 521, 569, 701, 775, 846
Butkovskyi, A.	85

C

Cämmerer, M.	753
Calabrese, F.	88, 100
Centler, F.	358, 700
Chatzinotas, A.	110, 201, 267, 312, 313, 560, 599, 709, 950
Chen, C.	731, 829, 882
Chen, C.	841
Chen, S.-C.	100
Chen, S.	202
Chiacchio, M.	781
Cichocki, N.	221, 405
Clark, A.T.	95, 106, 107, 108, 289, 833
Cord, A.F.	205, 271, 272, 323, 530, 628, 842, 844, 934
Craven, D.	98, 114
Crawford, M.	115
Cristini, D.	597

D

Darbi, M.	228, 697
Datta, A.	122
Daus, B.	385
David, C.	123
David, M.	56, 124, 125, 126
de Rooij, G.H.	58, 380, 704

Decelle, J.	128
Diel, J.	135
Dietrich, D.	924
Dietrich, P.	52, 53, 161, 236, 377, 574, 580, 661, 671, 680, 754, 983, 984, 985
Dietrich, P.	833
Dietze, V.	136
Dilling, O.	843
Ding, C.	79
Ding, Y.	194
Dislich, C.	562
Dittrich, A.	844, 891
Drechsler, M.	195
Dressler, G.	139, 140
Dunker, S.	144, 267
Durka, W.	32, 47, 78, 84, 145, 190, 325, 470, 569, 587, 691, 775
Dusny, C.	146
Díaz-Reviriego, I.	540, 541, 774

E

Ebeling, P.	147
Ebeling, S.	488
Eberlein, C.	149, 952
Egli, L.	152, 620
Ehrhardt, S.	91, 153, 732
Eichhorn, M.	83
Ellinger, M.	158
Engelmann, C.	52, 161, 162
Escher, B.	70, 164, 249, 388
Escher, B.I.	11, 54, 55, 71, 72, 165, 176, 250, 251, 343, 364, 463, 514, 557, 672, 799
Escobar Doncel, Á.	149
Eskelinen, A.	354, 546, 647

F

Feldhahn, L.	25, 214
Feldmann, R.	794, 970
Felipe-Lucia, M.R.	272, 422
Feng, Y.	170
Fernández Casas, I.	222
Fernández López, I.	25
Ferreira, C.C.	171, 503
Ferri-Yáñez, F.	28
Fink, P.	286, 287, 538, 559, 564, 657, 716, 767
Fischer, C.	174, 175, 801, 971
Fischer, F.C.	176, 250, 251
Fischer, H.	779, 972
Fischer, R.	15, 168, 177, 548, 847
Fischer, T.	352
Fleckenstein, J.H.	153, 351, 416, 483, 694, 695, 704
Förster, J.	181, 432, 848, 927
Foit, K.	699
Frank, K.	139, 140, 301, 320, 321, 358, 376, 577
Franke, S.	399
Franko, U.	129, 440, 675, 719, 849, 948
Franzén, M.	182
Frascareli, D.	616
Frassl, M.A.	703, 922
Frenzel, M.	145, 933
Fries, K.	616
Friesen, J.	184, 442, 976
Fühner, C.	436

G

Gao, W.	186, 187
García Quirós, I.	22
Garessus, E.D.G.	188
Gawel, E.	191, 192, 200, 386, 534, 766, 777, 778, 779, 780, 821, 850, 851, 852, 853, 893, 895, 916, 939, 940, 941, 942, 943
Gebauer, A.	193
Gehre, M.	74, 347, 400
Geistlinger, H.	194, 566
Georgi, A.	676, 898
Georgi, T.	752
Gerner, N.V.	973
Gerstner, K.	934
Getzin, S.	197, 198, 199
Ghanem, N.	201, 313
Glauch, L.	165
Glinka, U.	638
Goblirsch, T.	574, 924
Goldmann, K.	495
Golivets, M.	206
Goss, K.-U.	10, 208, 209, 210, 565
Graeber, D.	213, 264, 515, 645, 706
Grescho, V.	936
Grimm, V.	27, 92, 115, 120, 151, 152, 180, 295, 362, 376, 405, 407, 526, 527, 575, 816, 854
Grimm-Seyfarth, A.	216, 217, 231, 353, 781, 855
Groeneveld, J.	3, 139, 301, 643
Gross, M.	124, 218, 219, 858, 859
Groß, M.	856
Grossmann, S.	936
Gündel, U.	374
Guo, C.	139, 220
Guo, F.	730
Guo, Y.	221
Gutknecht, J.	741
Gáspár, B.	190

H

Haase, A.	225, 226, 308, 369, 783, 857, 862, 888, 959
Haase, D.	7, 14, 24, 112, 155, 224, 227, 308, 369, 377, 424, 491, 492, 662, 682, 724, 735, 765, 783, 861, 862, 863
Hackermüller, J.	142, 313, 317
Händel, F.	52, 53, 147, 161, 233
Häßler, P.	957
Hagemann, N.	136, 192, 323
Halbach, K.	230
Han, S.	232
Hansjürgens, B.	235, 428, 493, 494, 835, 865, 930, 931
Harms, H.	201, 221, 313, 727
Harnisch, F.	359
Harpke, A.	383, 499, 525, 794, 936, 970
Harpole, W.S.	106, 107, 109, 173, 267, 490, 546, 833
Harris, R.M.B.	174
Hase, N.	139
Haselow, L.	237, 784
Hauck, J.	239, 618, 960
Haupt, M.	611
Hausmann, J.	680
Hecker, S.	246, 544, 785
Heidbüchel, I.	382
Heink, U.	248
Heintz-Buschart, A.	263, 497, 498, 576, 584, 701
Heipieper, H.J.	149, 523, 667, 726, 952

Helbig, C.	877
Henle, K.	196, 216, 353, 781, 866, 925, 932, 956
Henneberger, L.	54, 176, 249, 250, 251
Henz, S.	397
Hermans, K.	253, 254, 528, 711
Herrmann, S.	25, 214
Hertel, D.	257, 258
Herzsprung, P.	130, 315
Heße, F.	132, 260, 300, 556, 568
Heuschkel, I.	261, 262, 276
Hildebrandt, A.	439, 892
Hölting, L.	271, 272
Hoffmann, F.	140
Hofmann, P.	267
Hofmann, S.	268, 269, 402
Hofmann, T.	364
Hollmann, J.	462
Holzer, F.	273
Hoppe, B.	229, 387, 517
Horst, A.	275
Hoschek, A.	261, 262, 276, 815
Huang, J.	279
Huber, C.	20
Hübschmann, T.	405
Hug, C.	365
Huth, A.	80, 168, 177, 178, 414, 504, 548, 643, 847

I

Inostroza, P.A.	355
Intelmann, D.	961
Iqbal, M.	561

J

Jäckel, G.	914
Jäger, C.G.	740
Jähkel, A.	234
Jaganmohan, M.	873
Jahnke, A.	61, 552, 557
Jakobs, G.	596
Jax, K.	248, 868, 960
Jehmlich, N.	37, 38, 39, 537, 624, 625, 639, 658
Jeliazkov, A.	293, 294
Jiang, S.Y.	299
Jiménez-Franco, M.V.	2
Jing, M.	300
John, F.	301
Johnke, J.	110
Jomaa, S.	279, 299, 742, 743, 769
Jürges, N.	136

K

Kabisch, N.	307, 308, 309, 786
Kabisch, S.	101, 310, 311, 870, 871, 920
Kämpf, C.	317
Kästner, M.	76, 395
Kaim, A.	205, 628
Kalbacher, T.	51, 63, 64, 236, 300
Kalkhof, S.	364, 374, 581
Kallies, R.	312, 313, 427, 720

Kambach, S.	314, 934
Kamjunke, N.	213, 315
Kanagaraj, R.	318
Kappelmeyer, U.	23
Karakoç, C.	599
Karande, R.	261, 262, 276
Karrasch, B.	324
Karthe, D.	40, 325
Karutz, R.	823
Kasperidus, H.D.	174, 925, 932, 956, 971
Kaus, A.	325
Keddi, I.	55
Kelbling, M.	646
Keller, P.S.	921
Kellner, H.	229
Kelly, R.	330
Khurelbaatar, G.	830
Kiesel, B.	313
Kilian Salas, S.	381
Kindler, A.	690
Kirsch, K.	569
Klähn, S.	189, 332, 335, 336
Klassert, C.	766
Klauer, B.	337, 534, 723, 766, 962, 963
Kleemann, J.	348
Kleinsteuber, S.	29, 102
Klenke, R.	217, 855
Klöckner, P.	340, 685, 788
Klotz, S.	43, 466, 569, 599, 827, 831, 926, 934, 935, 936
Klüver, N.	54, 55, 343, 390
Knapp, J.	596
Knapp, N.	177, 548, 847
Knapp, S.	344, 678, 873, 874, 875
Knechtel, S.	757, 977
Kneis, D.	259, 345
Knight, T.	16, 84, 292
Knight, T.M.	47, 50, 98, 114, 172, 241, 242, 391, 430, 705, 722
Knillmann, S.	397, 605, 876
Knöller, K.	474, 585, 586, 683
Knoeller, K.	105
Koch, F.	125, 368, 697, 877
Köck, W.	5, 346, 534, 535, 789, 790, 791, 792, 819, 820, 843, 878, 879, 880, 881
Ködel, U.	981
Koedel, U.	983, 984, 985
Köhler, I.H.	350
Köhne, M.	75
König, M.	165, 251, 463
König, S.	358
Kohli, P.	404
Kolditz, O.	51, 99, 300, 352, 438, 489, 748, 826, 829, 841, 882, 883, 909, 922, 923, 953, 989
Kong, X.	244, 291, 356, 357, 459
Kopinke, F.-D.	273, 676, 677
Korell, L.	360
Koschorreck, M.	420, 652
Kraemer, R.	329, 377
Kratochvil, I.	364
Krauss, M.	11, 57, 73, 270, 355, 365, 425, 467, 558
Kreck, M.	671
Krellenberg, K.	367, 368
Kreuer, D.	140
Krüger, D.	517, 521
Krueger, E.	371
Krueger, E.H.	370
Krüger, J.	596
Kühn, E.	525, 794, 944, 970, 990
Kühn, I.	44, 77, 122, 166, 167, 656, 670, 875, 936
Kühne, R.	401
Kühnel, D.	372, 583, 699, 721
Kuehnel, D.	296

Kümmel, S.	400, 406, 655, 718
Küster, E.	374, 425, 481
Kuhlicke, C.	232, 348, 817, 885, 886, 887, 927
Kuhlicke, U.	13, 714
Kumar, R.	34, 153, 300, 447, 460, 480, 529, 567, 617, 646, 673, 688, 739, 740, 905
Kunath, A.	886
Kuntze, K.	256
Kurteva-Yaneva, N.	752
Kurth, F.	214
Kurz, M.J.	328, 693, 694, 695

L

Ladouceur, E.	173, 375
Lambrecht, J.	88
Lampa, S.	217
Lang, E.O.	914
Lange, M.	376
Langhammer, M.	376
Larras, F.	131
Laube, G.	442
Lauf, T.	893
Lausch, A.	309, 377, 593, 765, 894
Lautenbach, S.	378, 628, 945
Lazik, D.	380, 381, 809
Lazik, W.	380
Lechtenfeld, O.J.	100, 146, 394, 622, 668, 704
Lehmann, F.	385
Lehmann, I.	57
Lehmann, P.	191, 386, 435, 821, 852, 853, 890, 893, 895, 940, 941, 942, 988
Lentendu, G.	31
Lepenies, R.	872, 896
Leuther, F.	389
Leuthold, D.	390, 481
Lian, S.	394
Liang, C.	395
Liebelt, V.	396
Lienhoop, N.	181, 323, 428, 836
Liess, M.	185, 212, 397, 398, 570, 605, 876, 965
Ließ, M.	158, 193, 675, 712, 955
Lindmeyer, M.	681
Liu, X.	728
Liu, Y.	404, 524, 728, 729
Liu, Z.	405, 413
Locher, K.	697
Löffler, F.	925
Löffler, M.	406
Lohmann, P.	658
Lohse, M.	146
Lu, R.	748
Lucas, M.	409, 410, 502
Luckenbach, T.	141, 142, 222, 230, 666
Ludwig, G.	411, 412, 897
Ludwig, J.	413
Lutz, S.R.	508
López Herráez, D.	82

M

Mackenzie, K.	676, 677, 699, 898
Magri, F.	288, 610
Mahmood, M.N.	416
Mallast, U.	418, 986
Manceur, A.M.	935
Mapook, A.	520

Mardones, M.	667
Markus, T.	792, 795, 796, 822, 899, 900
Marquard, E.	247
Marseille, M.	630, 715
Marseille, M.R.	421, 825, 901, 902, 903, 904
Martínez-Lavanchy, P.M.	667
Marx, A.	494, 567, 905
Massei, R.	425
Massenberg, J.R.	331, 426
Masurowski, F.	925
Matties, S.	488
Mattusch, J.	1
Meier, C.	302
Meier, J.-N.	435
Meissner, R.	237, 380, 784
Mendoza, M.T.	437
Meng, B.	438
Merbach, I.	158, 569, 654
Merz, R.	59, 637
Metze, D.	148
Meurer, K.H.E.	440
Meyer, V.	906
Mi, C.	441
Miao, X.-Y.	489
Michael, H.	222
Michalek, G.	798
Michalski, S.	19, 325
Michalski, S.G.	65, 145, 569, 666, 691, 907
Mihoub, J.-B.	216
Miltner, A.	467
Mimet, A.	445
Mirtl, M.	137
Mock, M.	449
Möckel, S.	450, 451, 452, 453, 454, 455, 456, 457, 493, 534, 640, 865, 908, 979
Moeder, M.	598
Moll, J.	387
Mollenhauer, H.	377
Montoya, V.	384
Moreno Osorio, J.H.	45, 461
Moses, S.	729
Mosig, P.	800
Mothes, S.	41, 42, 476
Motivans, E.	482
Muehlbauer, L.	185
Mühlenbrink, M.	54, 249, 250, 251, 658
Mueller, A.	462
Müller, B.	139, 140, 301, 338, 339, 577
Müller, C.	71, 72, 73, 361, 363, 510, 511, 512, 513, 661, 664
Müller, E.	57
Müller, J.A.	19, 687, 768
Müller, R.	757, 830, 882
Müller, R.A.	63, 64, 475, 476, 756
Müller, R.H.	752
Müller, S.	88, 113, 119, 138, 159, 221, 405, 413
Müller, T.	442, 464
Musat, F.	88, 100, 202
Musat, N.	88, 93, 94, 100, 128, 461, 727
Musche, M.	466, 525, 638, 794, 970
Muskus, A.	467
Musolff, A.	153, 704, 706
Muz, M.	552

N

Nagel, T.	51, 99, 489, 748
Naumov, D.	352, 489, 748
Nawaz, A.	472

Neßhöver, C.	697
Neu, T.R.	13, 81, 127, 379, 603, 714, 762, 763
Neuhaus, M.	228
Nijenhuis, I.	256, 399, 404
Nikolausz, M.	394
Nitz, T.	217
Niu, L.	733, 734
Nivala, J.	63, 64, 475, 476
Nixdorf, E.	352, 829, 910, 911, 953
Nogueira, G.	478
Norf, H.	213, 324
Nowak, K.M.	76
Nunes da Rocha, U.	66, 312, 322, 553

O

Ogungbemi, A.	481
Oosterwoud, M.R.	704
Osterman, J.	486
Ott, J.	936
Ouyang, W.-Y.	487

P

Pätzold, C.	628
Pannicke, N.	192
Papanikolaou, A.D.	933
Parisio, F.	489, 748
Paschke, H.	100
Patzelt, L.	252
Pe'er, G.	240, 493, 496, 562, 891
Peichl, M.	494
Petermann, E.	586
Pfeiffer, M.	40
Plassmann, M.M.	557
Polzin, C.	448
Popp, D.	100, 700
Poser, A.	736
Priess, J.	915
Priess, J.A.	90, 239, 446, 914
Pütz, S.	951
Pujades, E.	116, 305, 516
Purahong, W.	471, 472, 501, 517, 518, 519, 520, 521, 745, 746
Purkus, A.	821, 853, 916, 943

R

Raab, K.	960
Rabot, E.	712
Rada, S.	525
Rakovc, O.	34, 447, 460, 529, 567, 912
Rebmann, C.	341
Reemtsma, T.	9, 45, 79, 146, 230, 280, 340, 385, 594, 622, 685, 686, 788
Reese, M.	337, 534, 535, 802, 824, 867, 869, 917, 918, 972
Reiche, K.	596
Reinemann, C.	532
Reitz, T.	531, 569, 937
Remmler, P.	569
Renno, J.	337
Renpenning, J.	400, 729
Reyes, J.	539
Richert, I.	542

Richnow, H.-H.	45, 100, 404, 406, 760, 889
Richnow, H.	128
Richnow, H.H.	88, 275, 319, 394, 461, 487, 655, 728, 729
Richter, A.	330, 543, 544
Rink, D.	86, 545, 725, 803, 840, 862, 920
Rink, K.	352, 882, 909, 953, 989
Rinke, K.	74, 281, 357, 441, 592, 698, 703, 882, 921, 922
Ritter, S.	638
Rode, J.	547
Rode, M.	279, 299, 485, 742, 743
Roeder, A.	550, 833
Röder, S.	57
Rödig, E.	504, 548
Roedig, E.	80
Rödiger, T.	613
Rohe, L.	303
Rohwerder, T.	752
Rojo-Nieto, E.	552
Roland, U.	273
Rolle-Kampczyk, U.	160, 419
Rolle-Kampczyk, U.E.	462
Roscher, C.	35, 106, 173, 175, 204, 546, 550, 555, 587, 644, 684, 775, 833, 838, 846, 860, 946, 947
Römer, M.	685
Rumm, A.	812
Rummel, C.D.	557
Rupp, H.	237, 784
Rutjes, H.	56, 126

S

Said, N.	100, 560
Samaniego, L.	34, 150, 494, 529, 567, 646, 688, 905
Saraiva, J.	133
Saraiva, J.P.	553
Sarrazin, F.	477
Sattler, C.	936
Scarabotti, F.	149
Schädler, M.	25, 360, 488, 569, 745, 746, 747, 811, 936, 937
Schäfer, D.	905
Schattenberg, F.	159, 221
Schiller, J.	337, 962, 963, 966, 967
Schima, R.	574, 924
Schlichting, R.	165, 176, 251, 364, 463
Schlincz, U.	6, 257, 258, 659, 877, 975
Schlüter, S.	18, 135, 186, 187, 194, 349, 389, 409, 410, 505, 578, 579
Schmeller, D.S.	298
Schmid, A.	123, 146, 261, 262, 276, 449, 660, 681
Schmidt, A.	745, 746, 747, 936
Schmidt, A.	959
Schmidt, C.	62, 213, 416, 685
Schmidt, J.	493
Schmidt, J.R.	581
Schmidt, K.	667
Schmidt, L.	162
Schmidt, M.	45, 100, 128, 313, 461, 560
Schmidt, R.	554
Schmidt, S.	181, 378
Schmidt, S.	583
Schmitt-Jansen, M.	461
Schoebe, S.	252
Scholz, M.	174, 801, 812, 925, 932, 956, 971
Scholz, S.	230, 481, 500, 642
Schor, J.	317
Schreiber, S.	141, 142
Schreiter, S.	360
Schrön, M.	377, 393, 571
Schröter, M.	4, 348, 423, 630, 708, 711, 827, 842, 926, 927, 928, 929

Schröter-Schlaack, C.	235, 428, 919, 928, 930, 931, 966, 967
Schubert, K.	581
Schubert, M.	392, 585, 586, 692
Schüler, L.	34
Schüttler, A.	596
Schütze, C.	377
Schütze, S.-E.	57
Schiürmann, G.	71, 304, 401
Schulte-Römer, N.	219, 588, 589, 590, 591, 962, 963
Schultze, M.	592
Schulz, E.	433, 434, 569, 937
Schulz, H.	593
Schulz-Zunkel, C.	595, 932
Schulze, S.	594
Schulze, T.	11, 12, 73, 365, 619, 623
Schuster, J.	752
Schwarz, N.	220, 396, 842, 873
Schwarze, R.	437, 797, 798, 804, 805, 906, 958, 964, 968, 969
Schweiger, O.	111, 122, 383, 525, 759, 933, 936, 944
Schweitzer, C.	628
Seiwert, B.	9, 685
Selsam, P.	377
Sendek, A.	203, 599
Seppelt, R.	43, 152, 228, 378, 628, 711, 751, 827, 842, 844, 926, 934, 935, 936, 945
Settele, J.	89, 117, 134, 196, 235, 415, 522, 525, 601, 602, 638, 651, 759, 772, 793, 794, 806, 807, 808, 818, 864, 936, 944, 970, 974
Shahid, N.	243, 473, 605
Shao, H.	438
Shao, Y.	606, 607, 608
Shatwell, T.	609
Shrestha, P.K.	612
Siebert, C.	265, 288, 418, 458, 613, 696, 982, 986
Sigel, K.	337, 766
Silveira Melo, D.	616
Singh, J.	811
Söderholm, P.	942
Söding, M.	589, 591
Sood, P.	381
Spangenberg, J.H.	621, 936
Stadler, J.	444
Stärk, H.-J.	285, 443
Starke, S.	149
Stefanova, A.	626
Stier, B.	685
Stollberg, R.	586
Stoltenburg, R.	813
Sträuber, H.	29, 102
Strauch, M.	223, 323, 628
Strehlitz, B.	813
Strunz, S.	386, 629, 630, 780, 821, 852, 853, 895, 939, 940, 941, 942, 943
Stryhanyuk, H.	45, 88, 100, 128, 404, 461
Süring, C.	405
Sushchenko, O.	969

T

Tafarte, P.	435, 988
Tal, T.	96
Tanunchai, B.	519
Tarasova, L.	637
Tarkka, M.	214
Tarkka, M.T.	25, 531
Teixidó, E.	55, 641, 642
Teutsch, G.	754
Thober, J.	139, 376
Thober, S.	494, 529, 567, 646, 673, 688, 905
Thrän, D.	83, 436, 845, 916

- Thronicker, I. 648, 798
Thulke, H.-H. 573, 669
Thullner, M. 88, 143, 358, 649
Titeux, N. 255, 651
Tittel, J. 652
Trabitzsch, R. 757, 975, 977, 978, 980
Trauth, N. 62, 416
Tritschler, F. 52, 53
Türkowsky, D. 658

U

- Ueberham, M. 659
Ulbrich, K. 794, 944
Ulrich, N. 10, 462
Utomi, A.U. 661

V

- van Afferden, M. 63, 64, 475, 476, 830
van der Sande, M.T. 507, 533, 663
Vandewalle, M. 697
Vetterlein, D. 186, 187, 334, 381, 409, 410, 502, 717, 936
Vienken, T. 438, 671
Vieweg, M. 925
Virtanen, R. 77, 417, 468, 546
Völker, J. 949
Vogel, H.-J. 135, 194, 381, 389, 409, 410, 505, 579, 674, 675, 712, 948
Vogel, M. 676, 677
Vogt, C. 93, 94, 406, 760
Volk, M. 205, 223, 271, 323, 378, 626, 628, 842, 849
von Bergen, M. 160, 285, 364, 374, 419, 462, 581, 639, 658, 709
von Chamier, J. 105
von Tümpeling, W. 60, 252, 315, 425, 665, 991
Vosshage, A.T.L. 286
Vu, Q. 274
Václavík, T. 207, 479, 615, 653, 656, 751, 844, 936, 945
Vásquez Piñeros, M.A. 667

W

- Wagner, S. 45, 79, 230, 280, 340, 685, 686, 788
Walther, M. 97, 147, 161, 162, 306, 572, 627, 632, 679, 750, 764, 882, 913
Wang, J. 689, 690
Weber, M. 266, 698
Weber, U. 377
Weidauer, C. 425
Weimar, J. 393
Weise, S.M. 245, 302, 316, 442
Weiβ, H. 586, 975
Weiβbecker, C. 701
Weitere, M. 74, 286, 315, 327, 921
Weller, U. 675, 955
Wells, N.S. 105, 213
Wendeburg, A. 542
Wentzky, V.C. 703, 707
Werban, U. 158, 377, 580, 661, 680
Werner, B.J. 704
Westphal, K. 706
Wick, L.Y. 88, 201, 313, 582, 950
Wiederkehr, C. 710, 711
Wiegand, T. 17, 44, 104, 318, 429, 506, 549, 951

Wiemers, M.	121, 183, 415, 759, 776, 794, 936
Wild, R.	213, 713
Willebrand, K.C.U.	757, 976
Winter, M.	875
Witing, F.	719, 849
Wittmer, H.	181, 547, 635, 697, 848
Wolf, C.	723, 960
Wolff, M.	469, 724, 725
Wollschläger, U.	377, 675, 712, 948
Worrlich, A.	727
Wu, G.-M.	238, 475, 596
Wu, L.	319, 394, 404, 728, 729, 760
Wubet, T.	31, 472, 495, 501, 518, 521, 701

Y

Yan, C.	953
Yang, J.	737
Yang, X.	633, 742, 743
Yazbeck, A.M	744
Yin, R.	403, 738, 745, 746, 747, 937
Yoshioka, K.	103, 748, 749

Z

Zacharias, S.	377, 393
Zarejousheghani, M.	753
Zarzycka, A.	217
Zech, A.	754
Zehnsdorf, A.	344, 551, 756, 757, 875, 975, 976, 977, 978, 980
Zhan, Q.	357
Zhang, C.	747, 759
Zhang, D.	760
Zhang, S.	408
Zheng, T.	278, 750, 758
Zhou, C.	829, 911, 954
Zhou, T.	631, 761, 765
Zink, M.	905
Zozmann, H.	766

Weitere

Švara, V.	666
-----------	-----

Herausgeber

Helmholtz-Zentrum für Umweltforschung GmbH - UFZ

Permoserstraße 15
04318 Leipzig
Telefon 0341-235-0

Bearbeitung

Erika Schnauková

Michael Garbe

Heike Reichelt