



# Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung – UFZ

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## **Vorbemerkung**

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2019 erschienenen Publikationen, 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.

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## 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 geothermic 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. Alduraywish, S., Luzak, A., Lodge, C., Aldakheel, F., Erbas, B., Allen, K., Matheson, M., Gurrin, L., Heinrich, J., **Lehmann, I.**, von Berg, A., Standl, M., Abramson, M., Schulz, , Schulz, H., Lowe, A., Dharmage, S.C. (2019): The role of early life food sensitization in adolescent lung function: Results from 2 birth cohort studies  
*J. Allergy Clin. Immunol.-Pract.* **7** (6), 1825 - 1834.e12

9. **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
10. **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
11. **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
12. **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  
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13. 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
14. Amanatidou, E., Matthews, A.C., **Kuhlicke, U., Neu, T.R.**, McEvoy, J.P., Raymond, B. (2019):  
Biofilms facilitate cheating and social exploitation of  $\beta$ -lactam resistance in *Escherichia coli*  
*npj Biofilms Microbiomes* **5** , 36
15. 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

16. 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
17. Anselmann, S.E.L., Löffler, C., **Stärk, H.-J.**, **Jehmlich, N.**, **von Bergen, M.**, Brüls, T., Boll, M. (2019):  
The class II benzoyl-coenzyme A reductase complex from the sulfate-reducing *Desulfosarcina cetonica*  
*Environ. Microbiol.* **21** (11), 4241 - 4252
18. 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
19. **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
20. 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
21. **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
22. 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  
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23. **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

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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  
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25. 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
26. 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
27. 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
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Assessing the ecological impact of chemical pollution on aquatic ecosystems requires the systematic exploration and evaluation of four lines of evidence  
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*Am. Nat.* **193** (1), 125 - 139
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Hydrogen production from crude glycerol in an alkaline microbial electrolysis cell  
*Int. J. Hydrog. Energy* **44** (32), 17204 - 17213
31. 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

32. **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
33. Balkau, F., **Bezama, A.** (2019):  
Life cycle methodologies for building circular economy in cities and regions  
*Waste Manage. Res.* **37** (8), 765 - 766
34. **Banitz, T.** (2019):  
Spatially structured intraspecific trait variation can foster biodiversity in disturbed, heterogeneous environments  
*Oikos* **128** (10), 1478 - 1491
35. 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
36. Barantal, S., Castagneyrol, 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
37. **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
38. **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
39. 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
40. **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

41. 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
42. 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
43. 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
44. **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
45. **Bauer, M.**, Hackermüller, J., Schor, J., Schreiber, S., Fink, B., Pierzchalski, A., Herberth, G. (2019):  
Specific induction of the unique GPR15 expression in heterogeneous blood lymphocytes by tobacco smoking  
*Biomarkers* **24** (3), 217 - 224
46. 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
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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

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Conventional land-use intensification reduces species richness and increases production:  
A global meta-analysis  
*Glob. Change Biol.* **25** (6), 1941 - 1956
49. 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):  
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*Sci. Rep.* **9**, art. 17708
50. **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
51. 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
52. 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
53. **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
54. **Benra, F.**, Nahuelhual, L., Gaglio, M., Gissi, E., Aguayo, M., Jullian, C., **Bonn, A.** (2019):  
Ecosystem services tradeoffs arising from non-native tree plantation expansion in southern Chile  
*Landscape Urban Plan.* **190**, art. 103589
55. 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

56. **Bezama, A.**, Agamuthu, P. (2019):  
Addressing the big issues in waste management. Editorial  
*Waste Manage. Res.* **37** (1 Suppl.), 1 - 3
57. **Bezama, A.**, Ingrao, C., **O'Keeffe, S.**, **Thrän, D.** (2019):  
Resources, collaborators, and neighbors: The three-pronged challenge in the implementation of bioeconomy regions  
*Sustainability* **11** (24), art. 7235
58. Bienert, K., Schumacher, B., **Rojas Arboleda, M.**, **Billig, E.**, Shakya, S., Rogstrand, G., Zieliński, M., Dębowksi, M. (2019):  
Multi-indicator assessment of innovative small-scale biomethane technologies  
*Energies* **12** (7), art. 1321
59. **Bilke, L.**, Flemisch, B., **Kalbacher, T.**, **Kolditz, O.**, Helmig, R., **Nagel, T.** (2019):  
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*Transp. Porous Media* **130** (1), 337 - 361
60. **Billig, E.**, Decker, M., Benzinger, W., **Ketelsen, F.**, Pfeifer, P., Peters, R., Stolten, D., **Thrän, D.** (2019):  
Non-fossil CO<sub>2</sub> recycling—The technical potential for the present and future utilization for fuels in Germany  
*J. CO<sub>2</sub> Util.* **30** , 130 - 141
61. **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
62. 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
63. **Bittner, L.**, Klüver, N., Henneberger, L., Mühlenbrink, M., Zarfl, C., Escher, B.I. (2019):  
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65. **Bleicher, A., David, M., Rutjes, H.** (2019):  
When environmental legacy becomes a resource: On the making of secondary resources  
*Geoforum* **101**, 18 - 27
66. **Bloch, R., Schütze, S.-E., Müller, E., Röder, S., Lehmann, I., Brack, W., Krauss, M.** (2019):  
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*Anal. Bioanal. Chem.* **411** (29), 7771 - 7781
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Twenty-three unsolved problems in hydrology (UPH) – a community perspective  
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Changing climate both increases and decreases European river floods  
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Reliable reference for the methane concentrations in Lake Kivu at the beginning of industrial exploitation  
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Sources and variability of CO<sub>2</sub> in a pre-alpine stream gravel bar  
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Modeling the relationship of aeration, oxygen transfer and treatment performance in aerated horizontal flow treatment wetlands  
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