



Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung – UFZ

Forschungsbereich Erde und Umwelt

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2020 erschienenen Publikationen des Forschungsbereichs Erde und Umwelt, die von MitarbeiterInnen der Helmholtz-Zentrum für Umweltforschung GmbH - UFZ verfasst, mitverfasst oder herausgegeben wurden.

Redaktionsschluss für diese Publikationsliste war der 25.02.2021.

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

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

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Veröffentlichungen in ISI/Scopus-gelisteten Zeitschriften/Schriftenreihen

1. Abu Quba, A.A., Schaumann, G.E., **Karagulyan, M.**, Diehl, D. (2020):
A new approach for repeated tip-sample relocation for AFM imaging of nano and micro sized particles and cells in liquid environment
Ultramicroscopy **211**, art. 112945
2. **Adelowo, O.O., Ikhimiukor, O.O., Knecht, C.**, Vollmers, J., **Bhatia, M.**, Kaster, A.-K., **Müller, J.A.** (2020):
A survey of extended-spectrum beta-lactamase-producing *Enterobacteriaceae* in urban wetlands in southwestern Nigeria as a step towards generating prevalence maps of antimicrobial resistance
PLOS One **15** (3), e0229451
3. Afzal, M.J., **Khan, M.I.**, Cheema, S.A., Hussain, S., Anwar-ul-Haq, M., Ali, M.H., Naveed, M. (2020):
Combined application of *Bacillus* sp. MN-54 and phosphorus improved growth and reduced lead uptake by maize in the lead-contaminated soil
Environ. Sci. Pollut. Res. **27** (35), 44528 - 44539
4. Akram, A., Tara, N., Khan, M.A., Abbasi, S.A., Irfan, M., **Arslan, M.**, Afzal, M. (2020):
Enhanced remediation of Cr⁶⁺ in bacterial-assisted floating wetlands
Water Environ. J. **34** (51), 970 - 978
5. Akuraju, V., Pradhan, P., **Haase, D.**, Kropp, J.P., Rybski, D. (2020):
Relating SDG11 indicators and urban scaling – An exploratory study
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6. Al Abadla, Z., **Schlink, U.**, Abdel Wahab, M.M., Robaa, S.M. (2020):
Urban heat island and thermal human comfort in Tulkarm, West Bank, Palestine
J. Mater. Environ. Sci. **11** (8), 1361 - 1373
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Global solar radiation analysis and possible linked to sunspots number over Gaza, Palestine
J. Mater. Environ. Sci. **10** (9), 1503 - 1511
8. Alfeld, M., Eckhardt, H.-S., Kraft, J., Maiwald, M., Meermann, B., Merz, K., Pacholski, C., Prikler, S., Richert, J., Steiner, G., **von Tümping, W.** (2020):
Trendbericht Analytische Chemie
Nachr. Chem. **68** (4), 52 - 60

9. Ali, L., **Haase, A.**, Heiland, S. (2020):
Gentrification through green regeneration? Analyzing the interaction between inner-city green space development and neighborhood change in the context of regrowth: The case of Lene-Voigt-Park in Leipzig, Eastern Germany
Land **9** (1), art. 24
10. Ali, M.H., Sattar, M.T., **Khan, M.I.**, Naveed, M., Rafique, M., Alamri, S., Siddiqui, M.H. (2020):
Enhanced growth of mungbean and remediation of petroleum hydrocarbons by *Enterobacter* sp. MN17 and biochar addition in diesel contaminated soil
Appl. Sci. **10** (23), art. 8548
11. Almoradie, A., **de Brito, M.M.**, Evers, M., Bossa, A., Lumor, M., Norman, C., Yacouba, Y., Hounkpe, J. (2020):
Current flood risk management practices in Ghana: Gaps and opportunities for improving resilience
J. Flood Risk Manag. **13** (4), e12664
12. **Al-Rawahi, M.N., Lee, M.-Y., Friesen, J., Khurelbaatar, G., Müller, R.** (2020):
A practical step towards sustainability: decentralised wastewater management in Oman
Desalin. Water Treat. **176** , 360 - 369
13. An, L., **Grimm, V.**, Turner II, B.L. (2020):
Editorial: Meeting grand challenges in agent-based models
JASSS **23** (1), art. 13
14. Ananbeh, H., Merlos Rodrigo, M.A., Jelinkova, P., Strmiska, V., Splichal, Z., **Jehmlich, N.**, Michalkova, H., Stojanović, M., Voberkova, S., Adam, V., Moulick, A. (2020):
Soil protein as a potential antimicrobial agent against methicillin-resistant *Staphylococcus aureus*
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Neighbourhood character affects the spatial extent and magnitude of the functional footprint of urban green infrastructure
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Warming the phycosphere: Differential effect of temperature on the use of diatom-derived carbon by two copiotrophic bacterial taxa
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17. Araucz, K., **Aurich, A.**, Kołodyńska, D. (2020):
Novel multifunctional ion exchangers for metal ions removal in the presence of citric acid
Chemosphere **251** , art. 126331
18. **Archidona-Yuste, A.**, Cai, R., Cantalapiedra-Navarrete, C., Carreira, J.A., Rey, A., Viñegla, B., Liébanas, G., Palomares-Rius, J.E., Castillo, P. (2020):
Morphostatic speciation within the dagger nematode *Xiphinema hispanum*-complex species (Nematoda: Longidoridae)
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19. **Archidona-Yuste, A.**, Wiegand, T., Castillo, P., Navas-Cortés, J.A. (2020):
Spatial structure and soil properties shape local community structure of plant-parasitic nematodes in cultivated olive trees in southern Spain
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20. **Arinaitwe, K.**, Koch, A., Taabu-Munyaho, A., **Marien, K.**, Reemtsma, T., Berger, U. (2020):
Spatial profiles of perfluoroalkyl substances and mercury in fish from northern Lake Victoria, East Africa
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21. Armstrong, A.H., **Huth, A.**, Osmanoglu, B., Sun, G., Ranson, K.J., **Fischer, R.** (2020):
A multi-scaled analysis of forest structure using individual-based modeling in a costa rican rainforest
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22. **Arnold, R.**, Haug, J.-K., Lange, M., Friesen, J. (2020):
Impact of forest cover change on available water resources: Long-term forest cover dynamics of the semi-arid Dhofar cloud forest, Oman
Front. Earth Sci. **8** , art. 299
23. Arunrungvichian, K., Chongruchiroj, S., Sarasamkan, J., **Schüürmann, G.**, Brust, P., Vajragupta, O. (2020):
In silico finding of key interaction mediated $\alpha 3\beta 4$ and $\alpha 7$ nicotinic acetylcholine receptor ligand selectivity of quinuclidine-triazole chemotype
Int. J. Mol. Sci. **21** (17), art. 6189
24. Ashman, T.-L., Arceo-Gómez, G., Bennett, J.M., **Knight, T.M.** (2020):
Is heterospecific pollen receipt the missing link in understanding pollen limitation of plant reproduction?
Am. J. Bot. **107** (6), 845 - 847

25. **Auliya, M., Hofmann, S., Segniagbeto, G.H., Assou, D., Ronfot, D., Astrin, J.J., Forat, S., Ketoh, G.K.K., D'Cruze, N.** (2020):
The first genetic assessment of wild and farmed ball pythons (Reptilia, Serpentes, Pythonidae) in southern Togo
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Microbial degradation of hydrocarbons—basic principles for bioremediation: A review
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Effects of low flow and co-occurring stressors on structural and functional characteristics of the benthic biofilm in small streams
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29. Balbín-Suárez, A., **Lucas, M., Vetterlein, D., Sørensen, S.J., Winkelmann, T., Smalla, K., Jacquiod, S.** (2020):
Exploring microbial determinants of apple replant disease (ARD): a microhabitat approach under split-root design
FEMS Microbiol. Ecol. **96** (12), fiaa211
30. **Balciunas, E.M., Kappelmeyer, U., Harms, H., Heipieper, H.J.** (2020):
Increasing ibuprofen degradation in constructed wetlands by bioaugmentation with gravel containing biofilms of an ibuprofen-degrading *Sphingobium yanoikuyae*
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31. **Balda, M., Kopinke, F.-D.** (2020):
The role of nickel traces in fine chemicals for hydrodechlorination reactions with zero-valent iron
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The science-policy interface on ecosystems and people: challenges and opportunities
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Prospects for integrating disturbances, biodiversity and ecosystem functioning using microbial systems
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A multi-omics approach reveals mechanisms of nanomaterial toxicity and structure–activity relationships in alveolar macrophages
Nanotoxicology **14** (2), 181 - 195
35. **Banzhaf, E., Kollai, H., Kindler, A.** (2020):
Mapping urban grey and green structures for liveable cities using a 3D enhanced OBIA approach and vital statistics
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36. Bärenbold, F., **Boehrer, B.**, Grilli, R., Mugisha, A., **von Tümpeling, W.**, Umutoni, A., Schmid, M. (2020):
No increasing risk of a limnic eruption at Lake Kivu: Intercomparison study reveals gas concentrations close to steady state
PLOS One **15** (8), e0237836
37. Barry, K.E., van Ruijven, J., Mommer, L., Bai, Y., Beierkuhnlein, C., Buchmann, N., de Kroon, H., Ebeling, A., Eisenhauer, N., Guimarães-Steinicke, C., Hildebrandt, A., Isbell, F., Milcu, A., **Neßhöver, C.**, Reich, P.B., **Roscher, C.**, Sauheitl, L., Scherer-Lorenzen, M., Schmid, B., Tilman, D., von Felten, S., Weigelt, A. (2020):
Limited evidence for spatial resource partitioning across temperate grassland biodiversity experiments
Ecology **101** (1), e02905
38. **Bartkowski, B., Bartke, S.**, Helming, K., Paul, C., Techel, A.-K., **Hansjürgens, B.** (2020):
Potential of the economic valuation of soil-based ecosystem services to inform sustainable soil management and policy
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39. **Bartkowski, B., Beckmann, M., Drechsler, M., Kaim, A., Liebelt, V., Müller, B., Witing, F., Strauch, M.** (2020):
Aligning agent-based modeling with multi-objective land-use allocation: Identification of policy gaps and feasible pathways to biophysically optimal landscapes
Front. Environ. Sci. **8**, art. 103

40. Barton, K.E., Jones, C., Edwards, K.F., Shiels, A.B., **Knight, T.** (2020):
Local adaptation constrains drought tolerance in a tropical foundation tree
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Water-energy-ecosystem nexus in small run-of-river hydropower: Optimal design and policy
Appl. Energy **280** , art. 115936
42. **Bathmann, J.**, Peters, R., **Naumov, D.**, **Fischer, T.**, Berger, U., **Walther, M.** (2020):
The MANgrove–GroundwAter feedback model (MANGA) – Describing belowground competition based on first principles
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It's not all about funding: Fostering interdisciplinary collaborations in sustainability research from a European perspective
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46. **Baur, S.**, **Reemtsma, T.**, **Stärk, H.-J.**, **Wagner, S.** (2020):
Surfactant assisted extraction of incidental nanoparticles from road runoff sediment and their characterization by single particle-ICP-MS
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47. **Beck, S.**, Forsyth, T. (2020):
Who gets to imagine transformative change? Participation and representation in biodiversity assessments
Environ. Conserv. **47** (4), 220 - 223
48. **Becker, D.**, **Popp, D.**, **Harms, H.**, **Centler, F.** (2020):
A modular metagenomics pipeline allowing for the inclusion of prior knowledge using the example of anaerobic digestion
Microorganisms **8** (5), art. 669

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54. **Benettoni, P.**, **Ye, J.-Y.**, **Holbrook, T.R.**, **Calabrese, F.**, **Wagner, S.**, **Zarejousheghani, M.**, Griebel, J., **Ullrich, M.K.**, **Musat, N.**, **Schmidt, M.**, Flyunt, R., **Reemtsma, T.**, **Richnow, H.-H.**, **Stryhanyuk, H.** (2020): Surface cleaning and sample carrier for complementary high-resolution imaging techniques
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NeuroToxicology **76**, 235 - 244
62. Berzaghi, F., Wright, I.J., Kramer, K., Oddou-Muratorio, S., **Bohn, F.J.**, Reyer, C.P.O., Sabaté, S., Sanders, T.G.M., Hartig, F. (2020):
Towards a new generation of trait-flexible vegetation models
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66. Birk, S., Chapman, D., Carvalho, L., Spears, B.M., Andersen, H.E., Argillier, C., Auer, S., Baattrup-Pedersen, A., Banin, L., Beklioğlu, M., Bondar-Kunze, E., Borja, A., Branco, P., Bucak, T., Buijse, A.D., Cardoso, A.C., Couture, R.-M., Cremona, F., de Zwart, D., Feld, C.K., Ferreira, M.T., Feuchtmayr, H., Gessner, M.O., Gieswein, A., Globenvik, L., **Graeber, D.**, Graf, W., Gutiérrez-Cánovas, C., Hanganu, J., İskin, U., Järvinen, M., Jeppesen, E., Kotamäki, N., Kuijper, M., Lemm, J.U., Lu, S., Lyche Solheim, A., Mischke, U., Moe, S.J., Nõges, P., Nõges, T., Ormerod, S.J., Panagopoulos, Y., Phillips, G., Posthuma, L., Pouso, S., Prudhomme, C., Rankinen, K., Rasmussen, J.J., Richardson, J., Sagouis, A., Santos, J.M., Schäfer, R.B., Schinegger, R., Schmutz, S., Schneider, S.C., Schülting, L., Segurado, P., Stefanidis, K., Sures, B., Thackeray, S.J., Turunen, J., Uyarra, M.C., Venohr, M., von der Ohe, P.C., Willby, N., Hering, D. (2020):
Impacts of multiple stressors on freshwater biota across spatial scales and ecosystems
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67. Birla, S., Yadav, P.K., Mahalawat, P., **Händel, F.**, Chahar, B.R., Liedl, R. (2020):
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Comput. Graph. Forum **39** (3), 317 - 329
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Permoserstraße 15
04318 Leipzig
Telefon 0341-235-0

Bearbeitung

Erika Schnauková

Michael Garbe

Heike Reichelt