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Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung – UFZ

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2020 erschienenen Publikationen, 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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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
Sust. Cities Soc. **52** , art. 101853
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
7. Alabadla, Z., **Schlink, U.**, Abdel Wahab, M.M., Robaa, S.M., Abd El-Motey, G.G. (2020):
Global solar radiation analysis and possible linked to sunspots number over Gaza, Palestine
J. Mater. Environ. Sci. **10** (9), 1503 - 1511
8. Albergamo, V., **Escher, B.I.**, Schymanski, E.L., Helmus, R., Dingemans, M.M.L., Cornelissen, E.R., Kraak, M.H.S., Hollender, J., de Voogt, P. (2020):
Evaluation of reverse osmosis drinking water treatment of riverbank filtrate using bioanalytical tools and non-target screening
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9. Alfeld, M., Eckhardt, H.-S., Kraft, J., Maiwald, M., Meermann, B., Merz, K., Pacholski, C., Prikler, S., Richert, J., Steiner, G., **von Tümpling, W.** (2020):
Trendbericht Analytische Chemie
Nachr. Chem. **68** (4), 52 - 60
10. 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
11. 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
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12. 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
13. **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
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Investigating community dynamics and performance during microbial electrochemical degradation of whey
ChemElectroChem **7** (4), 989 - 997
15. An, L., **Grimm, V.**, Turner II, B.L. (2020):
Editorial: Meeting grand challenges in agent-based models
JASSS **23** (1), art. 13
16. Ananbeh, H., Merlos Rodrigo, M.A., Jelinkova, P., Strmiska, V., Splichal, Z., **Jehmlich, N.**, Michalkova, H., Stojanović, M., Voberkova, S., Adam, V., Moullick, 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
Environ. Microbiol. **22** (4), 1381 - 1396
19. Araucz, K., **Aurich, A.**, Kołodyńska, D. (2020):
Novel multifunctional ion exchangers for metal ions removal in the presence of citric acid
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20. **Archidona-Yuste, A.**, Cai, R., Cantalapiedra-Navarrete, C., Carreira, J.A., Rey, A., Viñepla, 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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Spatial structure and soil properties shape local community structure of plant-parasitic nematodes in cultivated olive trees in southern Spain
Agric. Ecosyst. Environ. **287** , art. 106688
22. **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
Chemosphere **260** , art. 127536
23. 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 costan rainforest
Ecol. Model. **433** , art. 109226
24. **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

25. 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
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26. 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?
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Coupling an electroactive *Pseudomonas putida* KT2440 with bioelectrochemical rhamnolipid production
Microorganisms **8** (12), art. 1959
28. **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
Nat. Conserv.-Bulgaria **38** , 37 - 59
29. Ławniczak, Ł., Woźniak-Karczewska, M., Loibner, A.P., **Heipieper, H.J., Chrzanowski, Ł.** (2020):
Microbial degradation of hydrocarbons—basic principles for bioremediation: A review
Molecules **25** (4), art. 856
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Quantifying the sensitivity of NDVI-based C factor estimation and potential soil erosion prediction using spaceborne Earth observation data
Remote Sens. **12** (7), art. 1136
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Indicators for circular economy in the agri-food sector
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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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Evolutionary engineering of *E. coli* MG1655 for tolerance against isoprenol
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34. 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), faa211
35. **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*
Eng. Life Sci. **20** (5-6), 160 - 167
36. **Balda, M., Kopinke, F.-D.** (2020):
The role of nickel traces in fine chemicals for hydrodechlorination reactions with zero-valent iron
Chem. Eng. J. **388** , art. 124185
37. Balogh, G., Bernhart, S.H., Stadler, P.F., **Schor, J.** (2020):
A probabilistic version of Sankoff's maximum parsimony algorithm
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The science-policy interface on ecosystems and people: challenges and opportunities
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39. **Banitz, T., Chatzinotas, A., Worrich, A.** (2020):
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
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41. **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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A method for assessing regional bioenergy potentials based on GIS data and a dynamic yield simulation model
Energies **13** (24), art. 6488
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Urban water demand simulation in residential and non-residential buildings based on a CityGML data model
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PLOS One **15** (8), e0237836
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46. **Bartkowski, B., Bartke, S.**, Helming, K., Paul, C., Techen, A.-K., **Hansjürgens, B.** (2020):
Potential of the economic valuation of soil-based ecosystem services to inform sustainable soil management and policy
PeerJ **8**, e8749
47. **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
48. Barton, K.E., Jones, C., Edwards, K.F., Shiels, A.B., **Knight, T.** (2020):
Local adaptation constrains drought tolerance in a tropical foundation tree
J. Ecol. **108** (4), 1540 - 1552

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Water-energy-ecosystem nexus in small run-of-river hydropower: Optimal design and policy
Appl. Energy **280** , art. 115936
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The MANgrove–GroundwATER feedback model (MANGA) – Describing belowground competition based on first principles
Ecol. Model. **420** , art. 108973
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It’s not all about funding: Fostering interdisciplinary collaborations in sustainability research from a European perspective
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52. Baumann, M., Kamp, J., Pötzschner, F., Bleyhl, B., Dara, A., Hankerson, B., Prishchepov, A.V., Schierhorn, F., Müller, D., Hölzel, N., **Krämer, R.,** Urazaliyev, R., Kuemmerle, T. (2020):
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Anal. Bioanal. Chem. **412** , 7295 - 7305
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Surfactant assisted extraction of incidental nanoparticles from road runoff sediment and their characterization by single particle-ICP-MS
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55. **Beck, S.,** Forsyth, T. (2020):
Who gets to imagine transformative change? Participation and representation in biodiversity assessments
Environ. Conserv. **47** (4), 220 - 223
56. **Becker, D., Popp, D., Harms, H., Centler, F.** (2020):
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Atmospheric indices allow anticipating the incidence of jellyfish coastal swarms
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Biointerphases **15** (2), art. 021005
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The OGS-Eclipse code for simulation of coupled multiphase flow and geomechanical processes in the subsurface
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64. Bennett, J.M., Steets, J.A., Burns, J.H., Burkle, L.A., Vamosi, J.C., Wolowski, M., Arceo-Gómez, G., Burd, M., **Durka, W.**, Ellis, A.G., Freitas, L., Li, J., Rodger, J.G., Ștefan, V., Xia, J., **Knight, T.M.**, Ashman, T.-L. (2020):
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The arrival of a red invasive seaweed to a nutrient over-enriched estuary increases the spatial extent of macroalgal blooms
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Nonadditive effects among threats on rare plant species
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Environmental factors and host microbiomes shape host–pathogen dynamics
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NeuroToxicology **76**, 235 - 244

70. 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):
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Waste Manage. Res. **38** (1_Suppl), 1 - 2
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Modelling the impact of past and future climate scenarios on streamflow in a highly mountainous watershed: A case study in the West Seti River Basin, Nepal
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Effect of temperature on acetate mineralization kinetics and microbial community composition in a hydrocarbon-affected microbial community during a shift from microoxic to sulfidogenic conditions
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Herausgeber

Helmholtz-Zentrum für Umweltforschung GmbH - UFZ

Permoserstraße 15
04318 Leipzig
Telefon 0341-235-0

Bearbeitung

Erika Schnauková

Michael Garbe

Heike Reichelt