



## Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung – UFZ

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Topic 5: Landschaften der Zukunft: Sicherung der terrestrischen Ökosysteme und Frischwasserressourcen unter Bedingungen von natürlicher Dynamik und globalem Wandel

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## Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahr 2023 erschienenen Publikationen des Programm-Topics 5 „Landschaften der Zukunft: Sicherung der terrestrischen Ökosysteme und Frischwasserressourcen unter Bedingungen von natürlicher Dynamik und globalem Wandel" des Helmholtz-Programms „Changing Earth – Sustaining our Future“ des Forschungsbereichs Erde und Umwelt, die von Beschäftigten des Helmholtz-Zentrums für Umweltforschung – UFZ verfasst, mitverfasst oder herausgegeben wurden.

Ist eine Publikation zusätzlich noch weiteren Programm-Topics zugeordnet, wird dies durch einen Hinweis auf Haupt- und Nebenzuordnungen ersichtlich.

Redaktionsschluss für diese Publikationsliste war der 31.01.2024.

UFZ-Beschäftigte sind im Unterschied zu Externen bei allen Publikationen durch **fette Schrift** hervorgehoben.

Das anschließende Autorenregister verzeichnet alle UFZ-Namen in alphabetischer Reihenfolge mit den laufenden Nummern der zugehörigen Publikationen.

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1. Aallam, Y., Dhiba, D., El Rasafi, T., Abbas, Y., Haddioui, A., **Tarkka, M.**, Hamdali, H. (2023):  
Assessment of two endemic rock phosphate solubilizing *Streptomyces* spp. on sugar beet (*Beta vulgaris* L.) growth under field conditions  
*Sci. Hortic.* **316** , art. 112033
2. **Abbas, G., Jomaa, S.**, Bronstert, A., **Rode, M.** (2023):  
Downstream changes in riverbank sediment sources and the effect of catchment size  
*J. Hydrol.* **46** , art. 101340
3. Adrian, R., Gsell, A.S., **Shatwell, T., Scharfenberger, U.** (2023):  
Linking theory with empirical data: Improving prediction through mechanistic understanding of lake ecosystem complexity under global change  
*Fundam. Appl. Limnol.* **196** (3-4), 179 - 194
4. **Al Naggari, Y.**, Shafiey, H., Paxton, R.J. (2023):  
Transcriptomic responses underlying the high virulence of black queen cell virus and sacbrood virus following a change in their mode of transmission in honey bees (*Apis mellifera*)  
*Viruses* **15** (6), art. 1284
5. Alarcón-Segura, V., Roilo, S., **Paulus, A., Beckmann, M.**, Klein, N., Cord, A.F. (2023):  
Farm structure and environmental context drive farmers' decisions on the spatial distribution of ecological focus areas in Germany  
*Landsc. Ecol.* **38** (9), 2293 - 2305
6. **Albracht, C.**, Eisenhauer, N., Vogel, A., Wagg, C., **Buscot, F.**, Heintz-Buschart, A. (2023):  
Effects of recurrent summer droughts on arbuscular mycorrhizal and total fungal communities in experimental grasslands differing in plant diversity and community composition  
*Front. Soil Sci.* **3** , art. 1129845
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High-resolution precipitation modeling in complex terrains using hybrid interpolation techniques: Incorporating physiographic and MODIS cloud cover influences  
*Remote Sens.* **15** (9), art. 2435
8. Alston, J.M., Fleming, C.H., Kays, R., Streicher, J.P., Downs, C.T., Ramesh, T., Reineking, B., **Calabrese, J.M.** (2023):  
Mitigating pseudoreplication and bias in resource selection functions with autocorrelation-informed weighting  
*Methods Ecol. Evol.* **14** (2), 643 - 654

9. **Altdorff, D., Oswald, S.E., Zacharias, S., Zengerle, C., Dietrich, P., Mollenhauer, H., Attinger, S., Schrön, M.** (2023):  
Toward large-scale soil moisture monitoring using rail-based cosmic ray neutron sensing  
*Water Resour. Res.* **59** (3), e2022WR033514
10. Amano, T., Berdejo-Espinola, V., Akasaka, M., de Andrade Junior, M.A.U., Blaise, N., Checco, J., Çilingir, F.G., Citegetse, G., Tor, M.C., Drobniak, S.M., Giakoumi, S., **Golivets, M.**, Ion, M.C., Jara-Díaz, J.P., Katayose, R., Lasmana, F.P.S., Lin, H.-Y., Lopez, E., Mikula, P., Morales-Barquero, L., Mupepele, A.-C., Narváez-Gómez, J.P., Nguyen, T.H., Nogueira Lisboa, S., Nuñez, M.A., Pavón-Jordán, D., Pottier, P., Prescott, G.W., Samad, F., Šćiban, M., Seo, H.-M., Shinoda, Y., Vajna, F., Vozykova, S., Walsh, J.C., Wee, A.K.S., Xiao, H., Zamora-Gutierrez, V. (2023):  
The role of non-English-language science in informing national biodiversity assessments  
*Nat. Sustain.* **6** (7), 845 - 854
11. Amano, T., Ramírez-Castañeda, V., Berdejo-Espinola, V., Borokini, I., **Chowdhury, S., Golivets, M.**, González-Trujillo, J.D., Montaña-Centellas, F., Paudel, K., White, R.L., Veríssimo, D. (2023):  
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*PLoS Biol.* **21** (7), e3002184
12. An, L., **Grimm, V.**, Bai, Y., Sullivan, A., Turner II, B.L., Malleson, N., Heppenstall, A., Vincenot, C., Robinson, D., Ye, X., Liu, J., Lindkvist, E., Tang, W. (2023):  
Modeling agent decision and behavior in the light of data science and artificial intelligence  
*Environ. Modell. Softw.* **166** , art. 105713
13. **Anees, M.M., Banzhaf, E.**, Wang, J., Joshi, P.K. (2023):  
Quality index approach for analysis of urban green infrastructure in Himalayan cities  
*Land* **12** (2), art. 279
14. Antonenko, M., **Dushkova, D.**, Krasovskaya, T. (2023):  
Urban forests in megacities from the perspective of ecosystem services using the Timiryazevsky Forest Park, Moscow, as a case study  
In: Breuste, J., Artmann, M., Ioja, C., Qureshi, S. (eds.)  
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Springer, Cham, p. 197 - 214

15. Arévalo-Martínez, D.L., Haroon, A., Bange, H.W., Erkul, E., Jegen, M., Moosdorf, N., Schneider von Deimling, J., Berndt, C., Böttcher, M.E., Hoffmann, J., Liebetrau, V., **Mallast, U.**, Massmann, G., Micallef, A., Michael, H.A., **Paasche, H.**, Rabbel, W., Santos, I., Scholten, J., Schwalenberg, K., Szymczycha, B., Thomas, A.T., Virtasalo, J.J., Waska, H., Weymer, B.A. (2023): Ideas and perspectives: Land–ocean connectivity through groundwater *Biogeosciences* **20** (3), 647 - 662
16. **Attermeyer, K., Anlanger, C., Weitere, M., Kamjunke, N., Brauns, M.** (2023): Benthic metabolism and nutrient uptake vary with geomorphology and season in a lowland river *Freshw. Sci.* **42** (1), 58 - 69
17. **Ayeh, D.** (2023): Struggles over resource decentralisation: legislative reform, corporate resistance and canadian aid partnerships in Burkina Faso  
In: Calvão, F., Archer, M., Benya, A. (eds.) *The lives of extraction*  
International Development Policy (Revue internationale de politique de développement) *15*  
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18. **Baaken, M.C., Bartkowski, B., Rode, J.** (2023): Exploring farmers' support needs for the adoption of agri-environmental practices: an application of the theoretical domains framework *Environ. Res. Commun.* **5** (11), art. 111004
19. **Bahlburg, D., Hüppe, L., Böhrer, T., Thorpe, S.E., Murphy, E.J., Berger, U., Meyer, B.** (2023): Plasticity and seasonality of the vertical migration behaviour of Antarctic krill using acoustic data from fishing vessels *R. Soc. Open Sci.* **10** (9), art. 230520
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Compositional variation in grassland plant communities  
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22. Banari, A., **Hertel, D., Schlink, U.**, Hampel, U., Lecrivain, G. (2023):  
Simulation of particle resuspension by wind in an urban system  
*Environ. Fluid Mech.* **23** (1), 41 - 63
23. **Bao, K., Thrän, D.**, Schröter, B. (2023):  
Land resource allocation between biomass and ground-mounted PV under consideration of the food–water–energy nexus framework at regional scale  
*Renew. Energy* **203** , 323 - 333
24. Bao, Q., Liu, C., **Friese, K., Dadi, T.**, Yu, J., Fan, C., **Shen, Q.** (2023):  
Understanding the heavy metal pollution pattern in sediments of a typical small- and medium-sized reservoir in China  
*Int. J. Environ. Res. Public Health* **20** (1), art. 708
25. Barresi Armoa, O.L., Sauvage, S., Houska, T., Bieger, K., **Schürz, C.**, Sánchez Pérez, J.M. (2023):  
Representation of hydrological components under a changing climate—A case study of the Uruguay River Basin using the new version of the Soil and Water Assessment Tool model (SWAT+)  
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26. **Bartkowski, B., Beckmann, M.**, Bednář, M., Biffi, S., Domingo-Marimon, C., Mesaroš, M., **Schübler, C.**, Šarapatka, B., Tarčak, S., Václavík, T., Ziv, G., **Wittstock, F.** (2023):  
Adoption and potential of agri-environmental schemes in Europe: Cross-regional evidence from interviews with farmers  
*People Nat.* **5** (5), 1610 - 1621
27. **Bartkowski, B., Lienhoop, N., Mahlich, L., Massenber, J.R.** (2023):  
Are preferences for soil-based ecosystem services driven by spatial phenomena?  
*Soil Security* **13** , art. 100120

28. **Bartkowski, B.**, Schepanski, K., **Bredenbeck, S.**, **Müller, B.** (2023):  
Wind erosion in European agricultural landscapes: More than physics  
*People Nat.* **5** (1), 34 - 44
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Extreme flooding controlled by stream network organization and flow regime  
*Nat. Geosci.* **16** (4), 339 - 343
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Reichstein, M. (2023):  
A joint framework for studying compound ecoclimatic events  
*Nat. Rev. Earth Environ.* **4** (5), 333 - 350
31. Becker, A.M., Masson, T., **Helbig, C.**, **Mohamdeen, A.**, **Schlink, U.** (2023):  
Wearable sensors increase perceived environmental health threat in cyclists and  
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*J. Transp. Health* **32** , art. 101660
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Schulz, S. (2023):  
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region despite intensification of irrigation  
*Agric. Water Manage.* **281** , art. 108243
33. **Bei, Q.**, **Reitz, T.**, **Schnabel, B.**, Eisenhauer, N., **Schädler, M.**, **Buscot, F.**,  
Heintz-Buschart, A. (2023):  
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*ISME J.* **17** (10), 1589 - 1600
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A., Carminati, A. (2023):  
Variations in pore size and contact angle distributions control rhizosphere rewetting  
*Geoderma* **437** , art. 116576
35. **Benra, F.**, Nahuelhual, L., **Felipe-Lucia, M.R.**, **Oh, R.R.Y.**, **Kachler, J.**, **Bonn, A.**  
(2023):  
Mismatches in the ecosystem services-wellbeing nexus: a case study for Chilean  
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E.A., Karatzas, G.P., **Rode, M.**, **Jomaa, S.** (2023):  
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*iScience* **26** (8), art. 107276
38. Bertuol-Garcia, D., **Ladouceur, E.**, Brudvig, L.A., Laughlin, D.C., Munson, S.M., Curran, M.F., Davies, K.W., Svejcar, L.N., Shackelford, N. (2023): Testing the hierarchy of predictability in grassland restoration across a gradient of environmental severity  
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*Nat. Commun.* **14**, art. 2145
43. **Bezama, A.** (2023): Measuring circularity: A (still) ongoing methodological challenge. Editorial  
*Waste Manage. Res.* **41** (5), 953 - 954



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The need of a stronger synergy of social and engineering sciences to pave the way for a sustainable circular economy. Editorial  
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Advances in catchment science, hydrochemistry, and aquatic ecology enabled by high-frequency water quality measurements  
*Environ. Sci. Technol.* **57** (12), 4701 - 4719
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Strengthening resilience in reconstruction after extreme events – Insights from flood affected communities in Germany  
*Int. J. Disaster Risk Reduct.* **96**, art. 103965
47. Bischoff, A.A., Kubitz, M., Ballesteros-Redondo, L., Stüeken, M., Rapp, T., **Fink, P.**, Hagen, W., Palm, H.W. (2023):  
Dynamics of fatty acids in pikeperch (*Sander lucioperca*) larvae and juveniles during early rearing and weaning in a commercial RAS—Implications for dietary refinement  
*Fishes* **8** (9), art. 444
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Obituary Klaus Domsch: 28 January 1926–25 February 2022  
*Soil Biol. Biochem.* **185**, art. 109148
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Are strategy developers well equipped when designing sustainable supply chains for a circular bio-economy? Supporting innovations' market uptake in a PESTEL + I environment  
*Energy Sustain. Soc.* **13**, art. 40
50. Boenigk, J., Beisser, D., Franke, L., Klar, L., Ilić, M., **Fink, P.** (2023):  
Differences in pigment composition and concentration between phototrophic, mixotrophic, and heterotrophic Chrysophyceae  
*Fottea* **23** (2), 223 - 234

51. Boezeman, D., de Pue, D., Graversgaard, M., **Möckel, S.** (2023):  
Less livestock in north-western Europe? Discourses and drivers behind livestock buyout policies. Moins de bétail dans le nord-ouest de l'Europe ? Discours et facteurs influençant les politiques de rachat de bétail. Geringere Viehbestände in Nordwesteuropa? Diskussionen und Beweggründe für staatliche Aufkaufprogramme von Vieh  
*EurChoices* **22** (2), 4 - 12
52. Boico, V.F., Therrien, R., **Fleckenstein, J.H., Nogueira, G., Iversen, B.V., Petersen, R.J.** (2023):  
3D surface-subsurface modeling of a bromide tracer test in a macroporous tile-drained field: Improvements and limitations  
*Soil Sci. Soc. Am. J.* **87** (3), 462 - 484
53. **Bolte, L., Goudarzi, F., Klenke, R., Steinfartz, S., Grimm-Seyfarth, A., Henle, K.** (2023):  
Habitat connectivity supports the local abundance of fire salamanders (*Salamandra salamandra*) but also the spread of *Batrachochytrium salamandrivorans*  
*Landscape Ecol.* **38** (6), 1537 - 1554
54. **Bonato, M., Martin, E.A., Cord, A.F., Seppelt, R., Beckmann, M., Strauch, M.** (2023):  
Applying generic landscape-scale models of natural pest control to real data: Associations between crops, pests and biocontrol agents make the difference  
*Agric. Ecosyst. Environ.* **342**, art. 108215
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Uncertainty in water transit time estimation with StorAge Selection functions and tracer data interpolation  
*Hydrology and Earth System Sciences* **27** (15), 2989 - 3004
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MISPEL: A multi-crop spectral library for statistical crop trait retrieval and agricultural monitoring  
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Comparison of seasonal and diurnal concentration profiles of BVOCs in coniferous and deciduous forests  
*Atmosphere* **14** (9), art. 1347

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Impact of landscape configuration and composition on pollinator communities across different European biogeographic regions  
*Front. Ecol. Evol.* **11** , art. 1128228
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Effects of climate change on the potential distribution of a dominant, widely distributed oak species, *Quercus candicans*, in Mexico  
*Atmosfera* **37** , 455 - 473
61. Bröcher, M., Ebeling, A., Hertzog, L., **Roscher, C.**, Weisser, W., Meyer, S.T. (2023):  
Effects of plant diversity on species-specific herbivory: patterns and mechanisms  
*Oecologia* **201** (4), 1053 - 1066
62. Bucher, S.F., Uhde, L., Weigelt, A., Cesarz, S., Eisenhauer, N., Gebler, A., Kyba, C., Römermann, C., **Shatwell, T.**, Hines, J. (2023):  
Artificial light at night decreases plant diversity and performance in experimental grassland communities  
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63. **Burian, A.**, Bruce, K., Tavela, E., Bakker, J., Balcells, L., Bennett, R., Chordekar, S., Costa, H.M., Crampton-Platt, A., de Boer, H., Ross-Gillespie, V., de Sacramento, A., Sidat, N., Simbine, L., Ready, J., Tang, C., Mauvisseau, Q. (2023):  
Merging two eDNA metabarcoding approaches and citizen-science-based sampling to facilitate fish community monitoring along vast Sub-Saharan coastlines  
*Mol. Ecol. Resour.* **23** (7), 1641 - 1655
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Drivers of microbial food-web structure along productivity gradients  
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Where are we now with European forest multi-taxon biodiversity and where can we head to?  
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Helmholtz-Zentrum für Umweltforschung GmbH - UFZ

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04318 Leipzig  
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