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Publications

Helmholtz Centre for Environmental Research – UFZ

Preface

This list includes all publications of the year 2025 which were authored, co-authored or edited by staff members of the Helmholtz Centre for Environmental Research - UFZ.

As of 1 January 2021, the Helmholtz Association has entered the fourth period of program-oriented funding (PoF IV). In PoF IV, the UFZ contributes to a single Helmholtz research program, "Changing Earth - Sustaining our Future", within the research field Earth and Environment. Thus, all UFZ publications are assigned to this program and its program topics.

The editorial deadline for this publication list was 6 March 2026.

In contrast to external authors, UFZ staff names are highlighted in **bold type** in all publications.

The concluding index lists all UFZ authors in alphabetical order with the sequential numbers of their publications.

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Publications in ISI/Scopus listed journals/series

1. Aala, S., **Kumar, R.**, Ribbe, L., **Borchardt, D.**, **Tarasova, L.** (2025):
The effects of space-time dynamics of precipitation on the shape and timing of streamflow event hydrographs
Hydrol. Process. **39** (11), e70333
[10.1002/hyp.70333](https://doi.org/10.1002/hyp.70333)
2. **Abbaszade, G.**, **Stückrath, K.**, **Müller, S.** (2025):
Bacterial colony biopsies: Spatial discrimination of heterogeneous cell types by cytometric fingerprinting
Methods Ecol. Evol. **16** (5), 972 - 987
[10.1111/2041-210x.70022](https://doi.org/10.1111/2041-210x.70022)
3. **Abdelsamad, A.M.A.**, **Saeidi, N.**, **Mackenzie, K.** (2025):
Mesoporous silica nanoparticles for rapid removal of PFOA: Impact of surface functional groups on adsorption efficiency and adsorbent regeneration
Environ. Pollut. **383** , art. 126796
[10.1016/j.envpol.2025.126796](https://doi.org/10.1016/j.envpol.2025.126796)
4. Ablormeti, F.K., Corcino Souza, P.G., Awuah, R.T., Kwoseh, C.K., Agbetiamah, D., Kena, A.W., Aidoo, K.A.S., Lutuf, H., Sossah, F.L., **Siqueira da Silva, R.**, Aidoo, O.F. (2025):
Modeling global habitat suitability of *Agroathelia rolfsii* causing *Sclerotium* wilt disease of tomato with emphasis on Ghana
Sci. Rep. **15** , art. 34034
[10.1038/s41598-025-12259-1](https://doi.org/10.1038/s41598-025-12259-1)
5. Achterberg, E.P., Rackelmann, F., Ramesh, A., O'Connor, J., García-Oliva, O., Jayachandran, S., Wichert, V., Li, X., Purkiani, K., Needham, D.M., Busmann, I., Fischer, P., Kopf, A., Lemmen, C., Scharsack, J.P., **Siebert, C.**, **Kamjunke, N.**, Sokolova, I.M., Brix, H. (2025):
Identifying and addressing the components of extreme physical-oceanographical events for improved risk management in coastal systems
Front. Mar. Sci. **12** , art. 1681652
[10.3389/fmars.2025.1681652](https://doi.org/10.3389/fmars.2025.1681652)
6. Acuña Espinoza, E., Loritz, R., Kratzert, F., **Klotz, D.**, Gauch, M., Álvarez Chaves, M., Ehret, U. (2025):
Analyzing the generalization capabilities of a hybrid hydrological model for extrapolation to extreme events
Hydrol. Earth Syst. Sci. **29** (5), 1277 - 1294
[10.5194/hess-29-1277-2025](https://doi.org/10.5194/hess-29-1277-2025)

7. **Adrian, L., Sawers, R.G., Deobald, D.** (2025):
Organohalide respiration in *Dehalococcoides* strains represents a novel mode of proton motive force generation
In: Poole, R.K., Kelly, D.J. (eds.)
Advances in Microbial Physiology 86
Elsevier, London,
[10.1016/bs.ampbs.2024.12.001](https://doi.org/10.1016/bs.ampbs.2024.12.001)
8. Adul, J., **Kumar, R.,** Obringer, R. (2025):
Ensemble modeling of the climate-energy nexus for renewable energy generation across multiple US states
Environ. Res.-Infrastruct. Sustain. **5** (1), art. 015006
[10.1088/2634-4505/adad12](https://doi.org/10.1088/2634-4505/adad12)
9. **Ague, S.K.d.L., Rinke, K.,** Mama, D., **Koschorreck, M.** (2025):
Greenhouse gas emissions from a large and shallow tropical African lake: contribution of different gases and emission pathways
J. Geophys. Res.-Biogeosci. **130** (10), e2024JG008572
[10.1029/2024JG008572](https://doi.org/10.1029/2024JG008572)
10. **Agyekum, M.K., Pathak, D., Kindinger, A., Kumar, R., Borchardt, D., Weitere, M., Frank, K., Schmitt-Jansen, M., Büttner, O., Brauns, M., Fink, P., Scharfenberger, U.** (2025):
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Commun. Earth Environ. **6** , art. 991
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11. **Agyekum, M.K.,** Zimmer, M., MacKay, F., Weerts, S., Helfer, V. (2025):
Spatial and temporal patterns of mangrove forest canopy gaps at the southern distribution limit
Bull. Mar. Sci. **101** (3), 1161 - 1175
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12. Aidoo, O.F., Correa Amaro, G., Corcino Souza, P.G., Coutinho Picanço, M., Awuah-Mensah, K.A., **Siqueira da Silva, R.** (2025):
Climate change impacts on worldwide ecological niche and invasive potential of *Sternochetus mangiferae*
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Invertebrate decline has minimal effects on oak-associated microbiomes
Environ. Microbiol. **27** (2), e70051
[10.1111/1462-2920.70051](https://doi.org/10.1111/1462-2920.70051)
14. **Aldehoff, A.S., Karkossa, I., Broghammer, H., Krupka, S., Weiner, J., Goerdeler, C., Nuwayhid, R., Langer, S., Wabitsch, M., Rolle-Kampczyk, U., Klötting, N., Blüher, M., Heiker, J.T., von Bergen, M., Schubert, K.** (2025):
Advanced proteomics approaches hold potential for the risk assessment of metabolism-disrupting chemicals as omics-based NAM: A case study using the phthalate substitute DINCH
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15. **Aldehoff, A.S., Türkowsky, D., Lohmann, P., Homsy, M.N., Rolle-Kampczyk, U., Ueberham, E., Lehmann, J., von Bergen, M., Jehmlich, N., Haange, S.-B.** (2025):
Revealing novel protein interaction partners of glyphosate in *Escherichia coli*
Environ. Int. **195**, art. 109243
[10.1016/j.envint.2024.109243](https://doi.org/10.1016/j.envint.2024.109243)
16. Allan, I.J., Miège, C., **Jahnke, A., Rojo-Nieto, E., Vorkamp, K., Kech, C., Polesello, S., Perceval, O., Booij, K., Dulio, V., Estoppey, N., Mayer, P., McHugh, B., Munschy, C., Staub, P.-F., Vrana, B.** (2025):
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J. Hazard. Mater. **483**, art. 136672
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17. Al-Mashharawi, S.K., Steele-Dunne, S.C., El Hajj, M.M., **Schrön, M., Doussan, C., Courault, D., Franz, T.E., McCabe, M.F.** (2025):
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Seasonal phenology of *Empoasca fabae* (Hemiptera: Cicadellidae) in Québec, Canada
Environ. Entomol. **54** (5), 1124 - 1135
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19. Alshetty, D., Shiva Nagendra, S.M., **Mueller, A., Schlink, U.** (2025):
Distribution of polycyclic aromatic compounds among various phases in an urban road microenvironment of a tropical megacity
Atmos. Environ-X **25** , art. 100309
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20. **Alvarez-Mora, I.**, Arturi, K., Béen, F., Buchinger, S., El Mais, A.E.R., Gallampois, C., Hahn, M., Hollender, J., Houtman, C., Johann, S., **Krauss, M.**, Lamoree, M., Margalef, M., **Massei, R., Brack, W., Muz, M.** (2025):
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Evolution of genotypic and phenotypic diversity in multispecies biofilms
npj Biofilms Microbiomes **11** , art. 118
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Decoding the impact of interspecies interactions on biofilm matrix components
Biofilm **9** , art. 100271
[10.1016/j.bioflm.2025.100271](https://doi.org/10.1016/j.bioflm.2025.100271)
24. 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. (2025):
Language, economic and gender disparities widen the scientific productivity gap
PLoS Biol. **23** (9), e3003372
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Complex adaptive systems science in the era of global sustainability crisis
Geogr. Sustain. **6** (1), art. 100250
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26. Andersen, I.M., Taylor, J.M., **Graeber, D.**, Kelly, P.T., Hoke, A.K., Robbins, C.J., Scott, J.T. (2025):
Redfield revisited: Insights into freshwater seston carbon : nitrogen : phosphorus stoichiometry
Limnol. Oceanogr. **70** (S2), S14 - S26
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27. **Andrzejak, M., Knight, T.M.**, Plos, C., **Korell, L.** (2025):
Changes in reproduction mediate the effects of climate change and grassland management on plant population dynamics
Ecol. Appl. **35** (1), e3063
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28. **Anuforo, P.C., Würz, B., Wick, L.Y., Kallies, R.** (2025):
Draft genome sequences of *Pseudomonas chengduensis* strain BW1 and *Sphingobium* sp. strain MK2 isolated from oil sands process-affected water
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Benefits of immobilized bacteria in bioremediation of sites contaminated with toxic organic compounds
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Hydrochar from agricultural waste as a biobased support matrix enhances bacterial degradation of diethyl phthalate
Molecules **30** (5), art. 1167
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31. **Armanu, E.G.**, Secula, M.S., **Eberlein, C., Schmidt, M., Heipieper, H.J.**, Volf, I. (2025):
Hydrochars from agricultural and forestry waste designed to achieve multipurpose matrices: Modeling and optimization of process parameters
Results Eng. **28**, art. 108252
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32. Arnault, J., Fersch, B., **Schrön, M.**, Bogena, H.R., Hendricks Franssen, H.-J., Kunstmann, H. (2025):
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33. Arturi, K., Harris, E.J., Gasser, L., **Escher, B.I., Braun, G.**, Bosshard, R., Hollender, J. (2025):
MLinvitroTox reloaded for high-throughput hazard-based prioritization of high-resolution mass spectrometry data
J. Cheminformatics **17**, art. 14
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34. Augusto, L., Borelle, R., Boča, A., Bon, L., Orazio, C., Arias-González, A., Bakker, M.R., Gartzia- Bengoetxea, N., **Auge, H.**, Bernier, F., Cantero, A., Cavender-Bares, J., Correia, A.H., De Schrijver, A., Diez-Casero, J.J., Eisenhauer, N., Fotelli, M.N., Gâteblé, G., Godbold, D.L., Gomes-Caetano-Ferreira, M., Gundale, M.J., Jactel, H., Koricheva, J., Larsson, M., Laudicina, V.A., Legout, A., Martín-García, J., Mason, W.L., Meredieu, C., Mereu, S., Montgomery, R.A., Musch, B., Muys, B., Paillassa, E., Paquette, A., Parker, J.D., Parker, W.C., Ponette, Q., Reynolds, C., Rozados-Lorenzo, M.J., Ruiz-Peinado, R., Santesteban-Insusti, X., Scherer-Lorenzen, M., Silva-Pando, F.J., Smolander, A., Spyroglou, G., Teixeira-Barcelos, E.B., Vanguelova, E.I., Verheyen, K., Vesterdal, L., Charru, M. (2025):
Widespread slow growth of acquisitive tree species
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37. **Ayuk, H.S., Arnold, S., Pierzchalski, A., Bauer, M., Stojanovska, V., Zenclussen, A.** (2025):
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38. **Ayuk, H.S., Pierzchalski, A., Tal, T., Myhre, O., Lindeman, B., Smith, N.M., Stojanovska, V., Zenclussen, A.C.** (2025):
Evaluating PFAS-Induced modulation of peripheral blood mononuclear cells (PBMCs) immune response to SARS-CoV-2 spike in COVID-19 Vaccinees
Environ. Int. **198**, art. 109409
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40. **Bachelder, J.,** Wigganhauser, M., Winkel, L.H.E., Frossard, E., Tolu, J. (2025):
Drastic variations in chemical composition of organic inputs: Implications for organic fertilization
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42. Backhaus, T., Scholze, M., **Brack, W.,** Martin, O., Slunge, D., Ågerstrand, M., Kortenkamp, A., **Escher, B.** (2025):
Include a mixture allocation factor to improve EU chemical risk management. Revision of the REACH chemical regulation should enable more realistic understanding and management
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43. **Bade, F., Kleinstaub, S., Moeller, L.** (2025):
Foam formation during anaerobic digestion of sugar beet silage: causes and countermeasures
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47. Baldivieso Soruco, C.R., Bonatti, M., De Silva, S., Ou, P., Soeun, K.O., Neth, S., Sun, V., **Rodríguez, T.**, Sean, V., Sithirith, M., Dubois, M., Sieber, S. (2025):
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