



Publications

Helmholtz Centre for Environmental Research – UFZ

Preface

This list includes all publications of the year 2023 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 31 January 2024.

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. 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. **Abdulkadir, N., Saraiva, J.P., Schattenberg, F., Brizola Toscan, R., Borim Correa, F., Harms, H., Müller, S., Nunes da Rocha, U.** (2023):
Combining flow cytometry and metagenomics improves recovery of metagenome-assembled genomes in a cell culture from activated sludge
Microorganisms **11** (1), art. 175
4. Abu Quba, A.A., Goebel, M.-O., **Karagulyan, M., Miltner, A., Kästner, M.**, Bachmann, J., Schaumann, G.E., Diehl, D. (2023):
Changes in cell surface properties of *Pseudomonas fluorescens* by adaptation to NaCl induced hypertonic stress
FEMS Microbes **4** , xtac028
5. Abu Quba, A.A., Goebel, M.-O., **Karagulyan, M., Miltner, A., Kästner, M.**, Bachmann, J., Schaumann, G.E., Diehl, D. (2023):
Hypertonic stress induced changes of *Pseudomonas fluorescens* adhesion towards soil minerals studied by AFM
Sci. Rep. **13** , art. 17146
6. 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
7. Ahmad, N., Younas, F., Ahmad, H.R., Sarfraz, M., Ayub, M.A., Maqsood, M.A., Rasul, F., Sardar, M.F., **Mehmood, T.**, Ajarem, J.S., Maoda, S.N., Li, X., Cui, Z. (2023):
Soybean (*Glycine max*) cropland suitability analysis in subtropical desert climate through GIS-based multicriteria analysis and Sentinel-2 multispectral imaging
Land **12** (11), art. 2034

8. **Al Naggar, 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

9. 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

10. Alava, J.J., **Jahnke, A.**, Bergmann, M., Aguirre-Martínez, G.V., Bendell, L., Calle, P., Domínguez, G.A., Faustman, E.M., Falman, J., Kazmiruk, T.N., Klasios, N., Maldonado, M.T., McMullen, K., Moreno-Báez, M., Öberg, G., Ota, Y., Price, D., Shim, W.J., Tirapé, A., Vandenberg, J.M., Zoveidadianpour, Z., Weis, J. (2023):
A call to include plastics in the global environment in the class of persistent, bioaccumulative, and toxic (PBT) pollutants
Environ. Sci. Technol. **57** (22), 8185 - 8188

11. **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

12. **Aldehoff, A.S., Karkossa, I., Engelmann, B., Rolle-Kampczyk, U., von Bergen, M., Schubert, K.** (2023):
Exploring the regulatory effects of lysine acetylation and phosphorylation in adipocyte differentiation and their exposure to emerging plastic additives
Toxicol. Lett. **384** (Suppl. 1), S133 - S133

13. Ali, M.H., **Khan, M.I.**, Naveed, M., Tanvir, M.A. (2023):
Microbe-assisted rhizoremediation of hydrocarbons and growth promotion of chickpea plants in petroleum hydrocarbons-contaminated soil
Sustainability **15** (7), art. 6081

14. Alsafadi, K., Bi, S., Bashir, B., **Sharifi, E.**, Alsalman, A., Kumar, A., Shahid, S. (2023):
High-resolution precipitation modeling in complex terrains using hybrid interpolation techniques: Incorporating physiographic and MODIS cloud cover influences
Remote Sens. **15** (9), art. 2435

15. 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

16. **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

17. Álvarez-Barragán, J., Cravo-Laureau, C., **Xiong, B., Wick, L.Y.**, Duran, R. (2023):
Marine fungi select and transport aerobic and anaerobic bacterial populations from polycyclic aromatic hydrocarbon-contaminated sediments
mBio **14** (2), e02761-22

18. Amano, T., Berdejo-Espinola, V., Akasaka, M., de Andrade Junior, M.A.U., Blaise, N., Checchio, 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

19. 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):
The manifold costs of being a non-native English speaker in science
PLoS Biol. **21** (7), e3002184

20. Amorim, M.J.B., Peijnenburg, W., Greco, D., Saarimäki, L.A., Dumit, V.I., Bahl, A., Haase, A., Tran, L., **Hackermüller, J., Canzler, S.**, Scott-Fordsmand, J.J. (2023):
Systems toxicology to advance human and environmental hazard assessment: A roadmap for advanced materials
Nano Today **48**, art. 101735

21. 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

22. **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

23. 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.)
Making green cities: Concepts, challenges and practice
Cities and Nature
Springer, Cham, p. 197 - 214

24. Arend, M., Ütkür, K., Hawer, H., Mayer, K., Ranjan, N., **Adrian, L.,** Brinkmann, U.,
Schaffrath, R. (2023):
Yeast gene *KTI13* (alias *DPH8*) operates in the initiation step of diphthamide synthesis on
elongation factor 2
Microb. Cell **10** (9), 195 - 203

25. 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

26. **Aslam, S., Jing, Y., Nowak, K.M.** (2023):
Fate of glyphosate and its degradation products AMPA, glycine and sarcosine in an
agricultural soil: Implications for environmental risk assessment
J. Hazard. Mater. **447** , art. 130847

27. **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

28. Šauer, P., Vrana, B., **Escher, B.I.,** Grabic, R., Toušová, Z., **Krauss, M.,** von der
Ohe, P.C., **König, M.,** Grabicová, K., Mikušová, P., Prokeš, R., Sobotka, J.,
Fialová, P., Novák, J., **Brack, W.,** Hilscherová, K. (2023):
Bioanalytical and chemical characterization of organic micropollutant mixtures in
long-term exposed passive samplers from the Joint Danube Survey 4: Setting a baseline
for water quality monitoring
Environ. Int. **178** , art. 107957

29. Aumeier, B.M., **Georgi, A., Saeidi, N.,** Sigmund, G. (2023):
Is sorption technology fit for the removal of persistent and mobile organic contaminants from water?
Sci. Total Environ. **880** , art. 163343

30. **Avila Santos, A.P., Kabiru Nata'ala, M., Kasmanas, J.C.,** Bartholomäus, A., Keller-Costa, T., **Jurburg, S.D., Tal, T.,** Camarinha-Silva, A., **Saraiva, J.P.,** de Carvalho, A.C.P.L.F., Stadler, P.F., **Sipoli Sanches, D., Nunes da Rocha, U.** (2023):
The AnimalAssociatedMetagenomeDB reveals a bias towards livestock and developed countries and blind spots in functional-potential studies of animal-associated microbiomes
Animal Microbiome **5** , art. 48

31. **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*
Brill, Leiden, p. 127 - 149

32. **Ayuk, H.S., Arnold, S., Bauer, M.,** Stadtmüller, M., Lindemann, D., **Stojanovska, V., Zenclussen, A.** (2023):
Entry points for SARS-CoV-2 in trophoblast cells and possible mechanisms of resistance
Placenta **140** , e53

33. **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

34. **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

35. **Bahlburg, D.,** Thorpe, S.E., Meyer, B., Berger, U., Murphy, E.J. (2023):
An intercomparison of models predicting growth of Antarctic krill (*Euphausia superba*): The importance of recognizing model specificity
PLOS One **18** (7), e0286036

36. Bajard, L., Adamovsky, O., Audouze, K., Baken, K., Barouki, R., Beltman, J.B., Beronius, A., Bonefeld-Jørgensen, E.C., Cano-Sancho, G., de Baat, M.L., Di Tillio, F., Fernández, M.F., FitzGerald, R.E., Gundacker, C., Hernández, A.F., Hilscherova, K., Karakitsios, S., Kuchovska, E., Long, M., Luijten, M., Majid, S., Marx-Stoelting, P., Mustieles, V., Negi, C.K., Sarigiannis, D., **Scholz, S.**, Sovadinova, I., Stierum, R., Tanabe, S., Tollefsen, K.E., van den Brand, A.D., Vogs, C., Wielsøe, M., Wittwehr, C., Blaha, L. (2023):
Application of AOPs to assist regulatory assessment of chemical risks – Case studies, needs and recommendations
Environ. Res. **217** , art. 114650

37. Bakker, J.D., Price, J.N., Henning, J.A., Batzer, E.E., Ohlert, T.J., Wainwright, C.E., Adler, P.B., Alberti, J., Arnillas, C.A., Biederman, L.A., Borer, E.T., Brudvig, L.A., Buckley, Y.M., Bugalho, M.N., Cadotte, M.W., Caldeira, M.C., Catford, J.A., Chen, Q., Crawley, M.J., Daleo, P., Dickman, C.R., Donohue, I., DuPre, M.E., Ebeling, A., Eisenhauer, N., Fay, P.A., Gruner, D.S., Haider, S., Hautier, Y., Jentsch, A., Kirkman, K., Knops, J.M.H., Lannes, L.S., MacDougall, A.S., McCulley, R.L., Mitchell, R.M., Moore, J.L., Morgan, J.W., Mortensen, B., Venterink, H.O., Peri, P.L., Power, S.A., Prober, S.M., **Roscher, C.**, Sankaran, M., Seabloom, E.W., Smith, M.D., Stevens, C., Sullivan, L.L., Tedder, M., Veen, G.F.C., Virtanen, R., Wardle, G.M. (2023):
Compositional variation in grassland plant communities
Ecosphere **14** (6), e4542

38. **Balda, M., Mackenzie, K., Wosidlo, S.,** Uhlig, H., Möllmer, J., **Kopinke, F.-D., Schüürmann, G., Georgi, A.** (2023):
Bottom-up synthesis of de-functionalized and dispersible carbon spheres as colloidal adsorbent
Int. J. Mol. Sci. **24** (4), art. 3831

39. **Baleeiro, F.C.F., Raab, J., Kleinsteuber, S.,** Neumann, A., **Sträuber, H.** (2023):
Mixotrophic chain elongation with syngas and lactate as electron donors
Microb. Biotechnol. **16** (2), 322 - 336

40. **Baleeiro, F.C.F.,** Varchmin, L., **Kleinsteinuber, S., Sträuber, H.,** Neumann, A. (2023):
Formate-induced CO tolerance and methanogenesis inhibition in fermentation of syngas and plant biomass for carboxylate production
Biotechnol. Biofuels Bioprod. **16** , art. 26

41. 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

42. **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

43. 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

44. Barrero-Canosa, J., Wang, L., Oyugi, A., **Klaes, S.,** Fischer, P., **Adrian, L.,** Szewzyk, U., Cooper, M. (2023):
Characterization of phage vB_EcoS-EE09 infecting *E. coli* DSM613 isolated from wastewater treatment plant effluent and comparative Proteomics of the infected and non-infected host
Microorganisms **11** (11), art. 2688

45. 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+)
Water **15** (14), art. 2604

46. Barrow, K., **Escher, B.I.,** Hicks, K.A., **König, M., Schlichting, R.,** Arlos, M.J. (2023):
Water quality monitoring with *in vitro* bioassays to compare untreated oil sands process-affected water with unimpacted rivers
Environ. Sci.-Wat. Res. Technol. **9** (8), 2008 - 2020

47. **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

48. **Bartkowski, B., Lienhoop, N., Mahlich, L., Massenberg, J.R.** (2023):
Are preferences for soil-based ecosystem services driven by spatial phenomena?
Soil Security **13** , art. 100120

49. **Bartkowski, B.,** Schepanski, K., **Bredenbeck, S., Müller, B.** (2023):
Wind erosion in European agricultural landscapes: More than physics
People Nat. **5** (1), 34 - 44

50. Bashirova, N., Poppitz, D., **Klüver, N., Scholz, S.**, Matysik, J., Alia, A. (2023):
A mechanistic understanding of the effects of polyethylene terephthalate
nanoplastics in the zebrafish (*Danio rerio*) embryo
Sci. Rep. **13** , art. 1891

51. **Basso, S., Merz, R., Tarasova, L., Miniussi, A.** (2023):
Extreme flooding controlled by stream network organization and flow regime
Nat. Geosci. **16** (4), 339 - 343

52. Bastos, A., Sippel, S., Frank, D., **Mahecha, M.D.**, Zaehle, S., **Zscheischler, J.**,
Reichstein, M. (2023):
A joint framework for studying compound ecoclimatic events
Nat. Rev. Earth Environ. **4** (5), 333 - 350

53. Bates, K.A., **Friesen, J.**, Loyau, A., Butler, H., Vredenburg, V.T., **Laufer, J.**,
Chatzinotas, A., Schmeller, D.S. (2023):
Environmental and anthropogenic factors shape the skin bacterial communities of a
semi-arid amphibian species
Microb. Ecol. **86** (2), 1393 - 1404

54. **Bauer, M.** (2023):
Interplay between toxicants, natural toxins, and the immune system in animal models.
Editorial
Front. Immunol. **14** , art. 1186300

55. Becker, A.M., Masson, T., **Helbig, C., Mohamdeen, A., Schlink, U.** (2023):
Wearable sensors increase perceived environmental health threat in cyclists and
pedestrians: A randomized field study
J. Transp. Health **32** , art. 101660

56. **Becker, D., Popp, D., Bonk, F., Kleinsteuber, S., Harms, H., Centler, F.** (2023):
Metagenomic analysis of anaerobic microbial communities degrading short-chain fatty
acids as sole carbon sources
Microorganisms **11** (2), art. 420

57. Becker, R., Schüth, C., **Merz, R.**, Khaliq, T., Usman, M., aus der Beek, T., **Kumar, R.**,
Schulz, S. (2023):
Increased heat stress reduces future yields of three major crops in Pakistan's Punjab
region despite intensification of irrigation
Agric. Water Manage. **281** , art. 108243

58. **Beckers, L.-M., Altenburger, R., Brack, W., Escher, B.I., Hackermüller, J., Hassold, E., Illing, G., Krauss, M., Krüger, J., Michaelis, P., Schüttler, A., Stevens, S., Busch, W.** (2023):
A data-derived reference mixture representative of European wastewater treatment plant effluents to complement mixture assessment
Environ. Int. **179** , art. 108155

59. **Bei, Q., Reitz, T., Schnabel, B., Eisenhauer, N., Schädler, M., Buscot, F., Heintz-Buschart, A.** (2023):
Extreme summers impact cropland and grassland soil microbiomes
ISME J. **17** (10), 1589 - 1600

60. **Bein, E., Seiwert, B., Reemtsma, T., Drewes, J.E., Hübner, U.** (2023):
Advanced oxidation processes for removal of monocyclic aromatic hydrocarbon from water: Effects of O₃/H₂O₂ and UV/H₂O₂ treatment on product formation and biological post-treatment
J. Hazard. Mater. **450** , art. 131066

61. **Bellver-Domingo, Á., Fuentes, R., Hernández-Sancho, F., Carmona, E., Picó, Y., Hernández-Chover, V.** (2023):
MCDA-DEA approach to construct a composite indicator for effluents from WWTPs considering the influence of PPCPs
Environ. Sci. Pollut. Res. **30** (16), 47234 - 47247

62. **Benard, P., Bachmann, J., Zarebanadkouki, M., Schlüter, S., Blaser, S.R.G.A., Kaestner, A., Carminati, A.** (2023):
Variations in pore size and contact angle distributions control rhizosphere rewetting
Geoderma **437** , art. 116576

63. **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 Patagonia
Ecosyst. People **19** (1), art. 2224448

64. **Ben-Salem, N., Reinecke, R., Coptý, N.K., Gómez-Hernández, J.J., Varouchakis, E.A., Karatzas, G.P., Rode, M., Jomaa, S.** (2023):
Mapping steady-state groundwater levels in the Mediterranean region: The Iberian Peninsula as a benchmark
J. Hydrol. **626, Part A** , art. 130207

65. Bergamo, P.J., Rito, K.F., Viana, B.F., Garcia, E., Lughadha, E.N., Maués, M.M., Rech, A.R., Silva, F.D.S., Varassin, I.G., Agostini, K., Marques, M.C.M., Maruyama, P.K., Ravena, N., Garibaldi, L.A., **Knight, T.M.**, Oliveira, P.E.A.M., Oppata, A.K., Saraiva, A.M., Tambosi, L.R., Tsukahara, R.Y., Freitas, L., Wolowski, M. (2023): Integrating public engagement to intensify pollination services through ecological restoration
iScience **26** (8), art. 107276

66. Bernat, P., Jasińska, A., Niedziałkowska, K., Słaba, M., Różalska, S., Paraszkievicz, K., Sas-Paszt, L., **Heipieper, H.J.** (2023): Adaptation of the metolachlor-degrading fungus *Trichoderma harzianum* to the simultaneous presence of low-density polyethylene (LDPE) microplastics
Ecotox. Environ. Safe. **267** , art. 115656

67. 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
Ecol. Appl. **33** (8), e2922

68. Beugnon, R., Bu, W., Bruelheide, H., Davrinche, A., Du, J., Haider, S., Kunz, M., von Oheimb, G., Perles-Garcia, M.D., Saadani, M., Scholten, T., Seitz, S., **Singavarapu, B.**, Trogisch, S., Wang, Y., **Wubet, T.**, Xue, K., Yang, B., Cesarz, S., Eisenhauer, N. (2023): Abiotic and biotic drivers of tree trait effects on soil microbial biomass and soil carbon concentration
Ecol. Monogr. **93** (2), e1563

69. Beugnon, R., Eisenhauer, N., Bruelheide, H., Davrinche, A., Du, J., Haider, S., Hähn, G., Saadani, M., **Singavarapu, B.**, Sünemann, M., Thouvenot, L., Wang, Y., **Wubet, T.**, Xue, K., Cesarz, S. (2023): Tree diversity effects on litter decomposition are mediated by litterfall and microbial processes
Oikos **2023** (10), e09751

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