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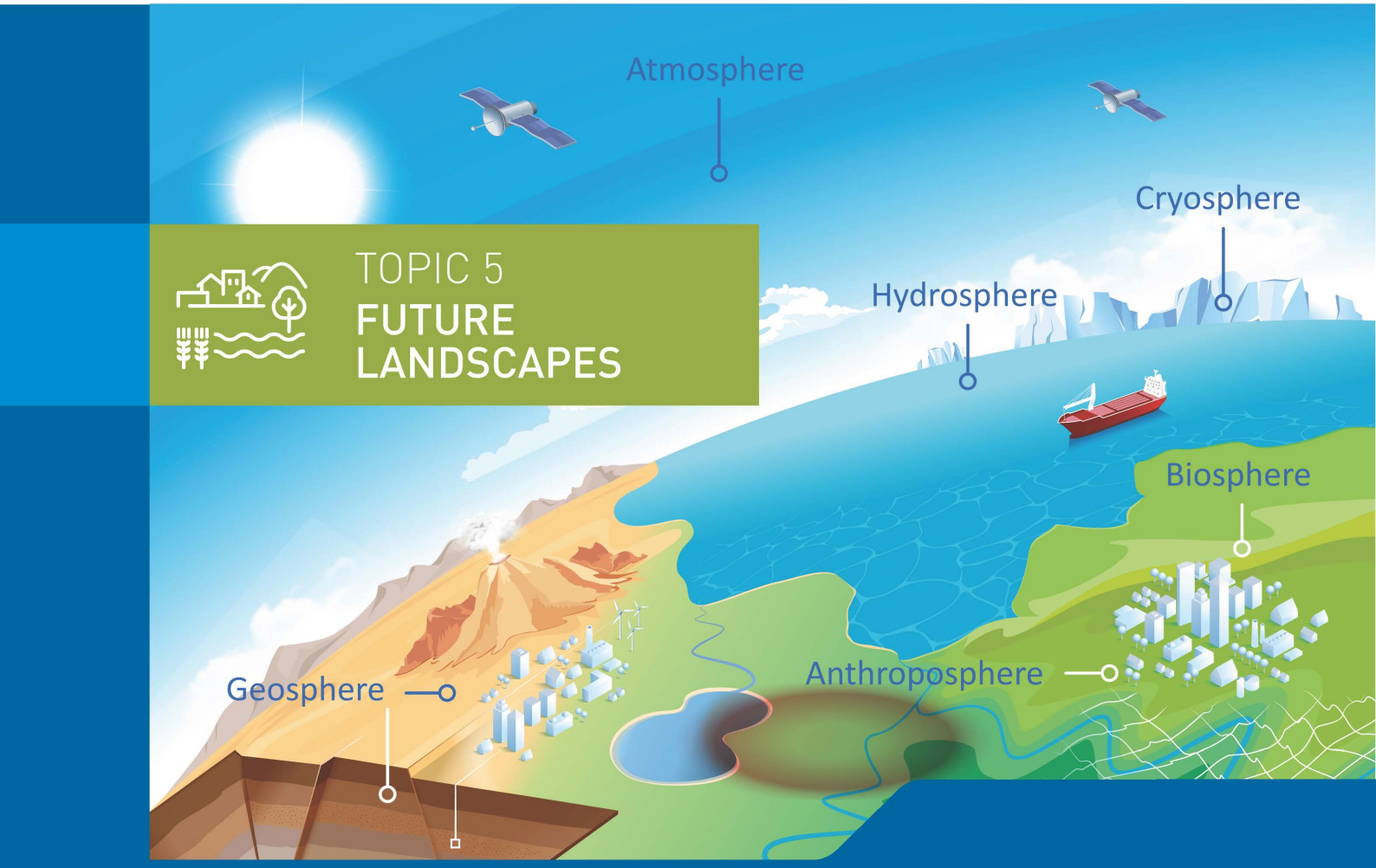

Publications

Helmholtz Centre for Environmental Research – UFZ

Topic 5: Landscapes of the Future: Securing Terrestrial Ecosystems and Freshwater Resources under Natural Dynamics and Global Change

Preface

This list includes all publications of the year 2022 assigned to program topic 5 “Landscapes of the Future: Securing Terrestrial Ecosystems and Freshwater Resources under Natural Dynamics and Global Change” of the Helmholtz research program "Changing Earth – Sustaining our Future" within the research field Earth and Environment which were authored, co-authored or edited by staff members of the Helmholtz Centre for Environmental Research - UFZ.

If a publication belongs to more than one program topic, both primary and secondary assignments are indicated.

The editorial deadline for this publication list was 20 January 2023.

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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Growth promotion and protection against root rot of sugar beet (*Beta vulgaris* L.) by two rock phosphate and potassium solubilizing *Streptomyces* spp. under greenhouse conditions
Plant Soil **472** (1-2), 407 - 420

2. Abdussalam, W., Mertel, A., Fan, K., **Schüler, L.,** Schlechte-Wełnicz, W., **Calabrese, J.M.** (2022):
A scalable pipeline for COVID-19: the case study of Germany, Czechia and Poland
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3. Abrahão, A., Marhan, S., Boeddinghaus, R.S., **Nawaz, A., Wubet, T.,** Hölzel, N., Klaus, V.H., Kleinebecker, T., Freitag, M., Hamer, U., Oliveira, R.S., Lambers, H., Kandeler, E. (2022):
Microbial drivers of plant richness and productivity in a grassland restoration experiment along a gradient of land-use intensity
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4. **Ahmadi, P.,** Aghajanzadeh, M., Asaadian, H., Khadivi, A., Kord, S. (2022):
Ion-mediated desorption of asphaltene molecules from carbonate and sandstone structures
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5. **Ahmadi, P.,** Elagami, H., **Dichgans, F., Schmidt, C.,** Gilfedder, B.S., Frei, S., Peiffer, S., **Fleckenstein, J.H.** (2022):
Systematic evaluation of physical parameters affecting the terminal cettling velocity of microplastic particles in lakes using CFD
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6. Akmatov, M.K., Holstiege, J., Dammertz, J., Heuer, J., Kohring, C., Lotto-Batista, M., **Boeing, F.,** Ghozzi, S., Castell, S., Bätzing, J. (2022):
Epidemiology of Lyme borreliosis based on outpatient claims data of all people with statutory health insurance, Germany, 2019
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7. Al Naggar, Y., **Singavarapu, B.,** Paxton, R.J., **Wubet, T.** (2022):
Bees under interactive stressors: the novel insecticides flupyradifurone and sulfoxaflor along with the fungicide azoxystrobin disrupt the gut microbiota of honey bees and increase opportunistic bacterial pathogens
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8. Alavipanah, S.K., Firozjaei, M.K., Sedighi, A., Fathololoumi, S., Naghadehi, S.Z., Salehi, S., Naghdizadegan, M., Gomeh, Z., Arsanjani, J.J., Makki, M., Qureshi, S., Weng, Q., **Haase, D.,** Pradhan, B., Biswas, A., Atkinson, P.M. (2022):
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9. Alexandridis, N., Marion, G., Chaplin-Kramer, R., Dainese, M., Ekroos, J., Grab, H., Jonsson, M., Karp, D.S., Meyer, C., O'Rourke, M.E., Pontarp, M., Poveda, K., **Seppelt, R.,** Smith, H.G., Walters, R.J., Clough, Y., Martin, E.A. (2022):
Archetype models upscale understanding of natural pest control response to land-use change
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10. Anderies, J.M., Cumming, G.S., Clements, H.S., Lade, S.J., **Seppelt, R.,** Chawla, S., **Müller, B.** (2022):
A framework for conceptualizing and modeling social-ecological systems for conservation research
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11. Andersson, E., **Haase, D.,** Kronenberg, J., Langemeyer, J., Mascarenhas, A., **Wolff, M.,** Elmqvist, T. (2022):
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12. **Andrzejak, M., Korell, L., Auge, H., Knight, T.M.** (2022):
Effects of climate change and pollen supplementation on the reproductive success of two grassland plant species
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13. Anguelovski, I., Connolly, J.J.T., Cole, H., Garcia-Lamarca, M., Triguero-Mas, M., Baró, F., Martin, N., Conesa, D., Shokry, G., **Pérez del Pulgar, C.,** Ramos, L.A., Matheney, A., Gallez, E., Oscilowicz, E., López Máñez, J., Sarzo, B., Beltrán, M.A., Martinez Minaya, J. (2022):
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14. **Anlanger, C.,** Attermeyer, K., **Hille, S., Kamjunke, N.,** Koll, K., König, M., Schnauder, I., **Nogueira Tavares, C., Weitere, M., Brauns, M.** (2022):
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Int. Rev. Hydrobiol. **107** (1-2), 34 - 45

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16. Arp, A., **Gebauer, R.,** Lindenberger, T., Warnecke, M.-L. (2022):
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17. Asaadian, H., **Ahmadi, P.,** Khormizi, M.Z., Mohammadi, S., Soulgani, B.S., Baghersaei, S., Mokhtari, B. (2022):
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Analysis of differences and commonalities in wildlife hunting across the Africa-Europe South-North gradient
PLoS Biol. **20** (8), e3001707

21. **Bahrami, B., Hildebrandt, A., Thober, S., Rebmann, C., Fischer, R., Samaniego, L., Rakovec, O., Kumar, R.** (2022):
Developing a parsimonious canopy model (PCM v1.0) to predict forest gross primary productivity and leaf area index of deciduous broad-leaved forest
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22. Ballasus, H., Schneider, B., von Suchodoletz, H., Miera, J., **Werban, U.,** Fütterer, P., Werther, L., Ettel, P., Veit, U., Zielhofer, C. (2022):
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24. Balvanera, P., Brauman, K.A., **Cord, A.F.,** Drakou, E.G., Geijzendorffer, I.R., Karp, D.S., Martín-López, B., Mwampamba, T.H., **Schröter, M.** (2022):
Essential ecosystem service variables for monitoring progress towards sustainability
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27. **Banzhaf, E.,** Anderson, S., Grandin, G., Hardiman, R., Jensen, A., Jones, L., **Knopp, J.,** Levin, G., Russel, D., Wu, W., Yang, J., Zandersen, M. (2022):
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Bottom-up assessment of local agriculture, forestry and urban waste potentials towards energy autonomy of isolated regions: Example of Réunion
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In: Ruiz-Mallén, I., March, H., Satorras, M. (eds.)
Urban resilience to the climate emergency
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Investigating preferences for soil-based ecosystem services
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Data on public preferences for soil-based ecosystem services in Germany
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34. **Bartkowski, B., Schüßler, C., Müller, B.** (2022):
Typologies of European farmers: approaches, methods and research gaps
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35. Barton, C.M., Ames, D., Chen, M., **Frank, K.,** Jagers, H.R.A., Lee, A., Reis, S., Swantek, L. (2022):
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36. Barton, C.M., Lee, A., Janssen, M.A., van der Leeuw, S., Tucker, G.E., Porter, C., Greenberg, J., Swantek, L., **Frank, K.,** Chen, M., Jagers, H.R.A. (2022):
How to make models more useful
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Editorial: Reconciling small hydropower and ecosystem services in river basins
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43. **Berghöfer, U., Rode, J., Jax, K., Förster, J., Berghöfer, A., Wittmer, H.** (2022): 'Societal relationships with nature': A framework for understanding nature-related conflicts and multiple values *People Nat.* **4** (2), 534 - 548

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45. **Bezama, A., Hildebrandt, J., Thrän, D.** (2022): Analysing the potential environmental and socio-economic impacts of regional energy integration scenarios of a bio-based industrial network *Sustainability* **14** (23), art. 15886

46. Bilyera, N., Hummel, C., Daudin, G., Santangeli, M., Zhang, X., Santner, J., **Lippold, E., Schlüter, S.,** Bertrand, I., Wenzel, W., Spielvogel, S., **Vetterlein, D.,** Razavi, B.S., Oburger, E. (2022): Co-localised phosphorus mobilization processes in the rhizosphere of field-grown maize jointly contribute to plant nutrition *Soil Biol. Biochem.* **165** , art. 108497

47. Binh, D.V., Kantoush, S.A., Ata, R., Tassi, P., **Nguyen, V.T.,** Lepesqueur, J., Abderrezzak, K.E.K., Bourban, S.E., Nguyen, Q.H., Phuong, D.N.L., Trung, L.V., Tran, D.A., Letrung, T., Sumi, T. (2022):
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48. Bird, D.N., **Banzhaf, E., Knopp, J., Wu, W.,** Jones, L. (2022):
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50. Bischoff, A.A., Kubitz, M., Wranik, C.M., Ballesteros-Redondo, L., **Fink, P.,** Palm, H.W. (2022):
The effect of *Brachionus calyciflorus* (Rotifera) on larviculture and fatty acid composition of pikeperch (*Sander lucioperca* (L.)) cultured under pseudo-green water conditions
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51. Blaurock, K., Garthen, P., **da Silva, M.P.,** Beudert, B., Gilfedder, B.S., **Fleckenstein, J.H.,** Peiffer, S., **Lechtenfeld, O.J.,** Hopp, L. (2022):
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52. **Boeing, F., Rakovec, O., Kumar, R., Samaniego, L., Schrön, M., Hildebrandt, A., Rebmann, C., Thober, S., Müller, S., Zacharias, S.,** Bogena, H., Schneider, K., Kiese, R., **Attinger, S., Marx, A.** (2022):
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56. **Borchers, M., Thrän, D.,** Chi, Y., Dahmen, N., Dittmeyer, R., Dolch, T., Dold, C., **Förster, J.,** Herbst, M., Heß, D., Kalhori, A., Koop-Jakobsen, K., Li, Z., Mengis, N., Reusch, T.B., Rhoden, I., Sachs, T., Schmidt-Hattenberger, C., Stevenson, A., **Thoni, T.,** Wu, J., Yeates, C. (2022):
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64. **Brock, J., Lange, M.,** Tratalos, J.A., Meunier, N., Guelbenzu-Gonzalo, M., More, S.J., **Thulke, H.-H.,** Graham, D.A. (2022): The Irish cattle population structured by enterprise type: overview, trade & trends *Irish Vet. J.* **75** , art. 6

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69. Butturini, A., **Herzsprung, P., Lechtenfeld, O.J.,** Alcorlo, P., Benaiges-Fernandez, R., Berlanga, M., Boadella, J., Freixinos Campillo, Z., Gomez, R.M., Sanchez-Montoya, M.M., Urmeneta, J., Romaní, A.M. (2022):
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70. Cai, H., Liu, S., Shi, H., Zhou, Z., **Jiang, S.,** Babovic, V. (2022):
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