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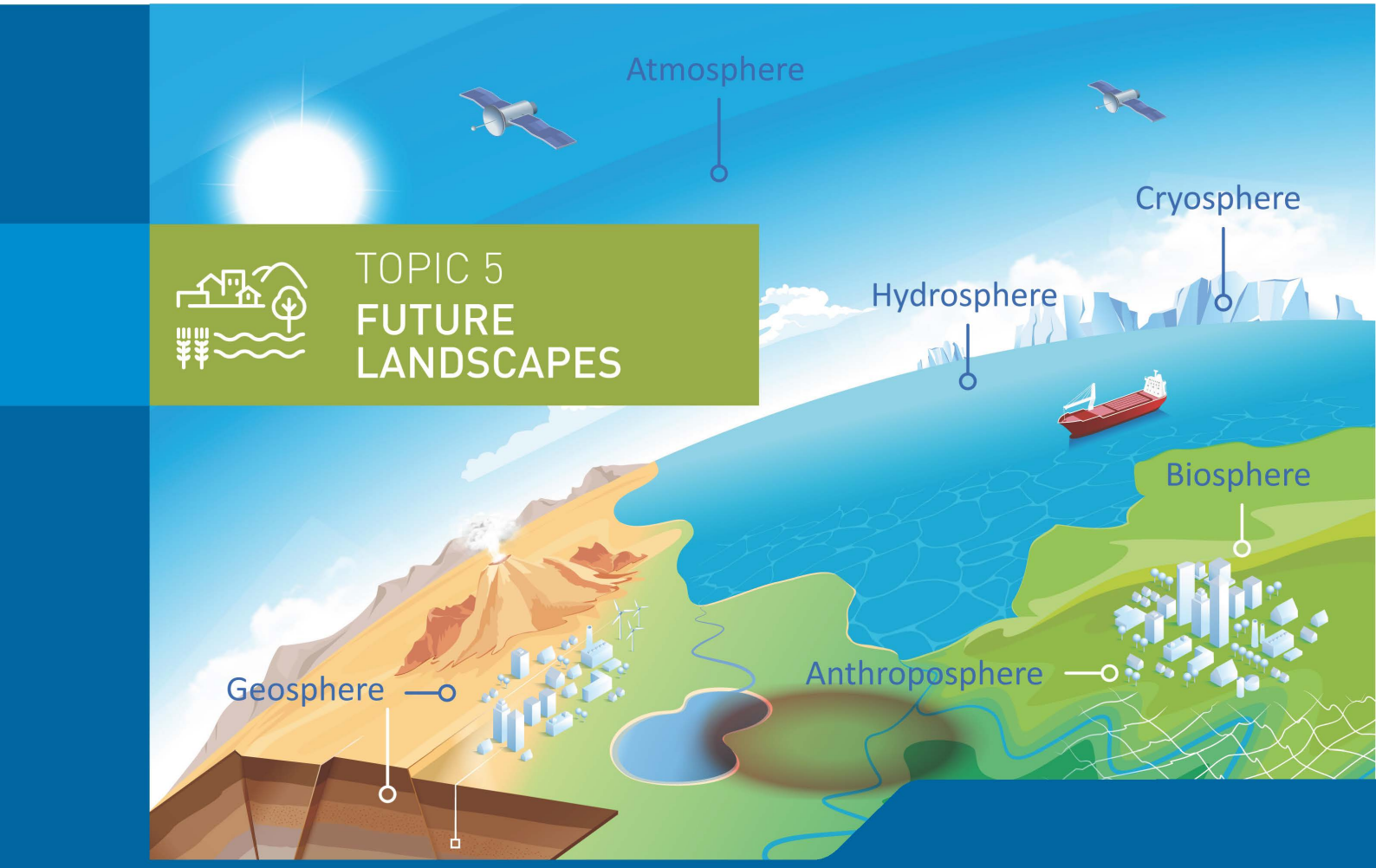

TOPIC 5
FUTURE LANDSCAPES

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 2024 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 28 February 2025.

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.

Table of contents

Publications in ISI/Scopus listed journals/series

1. **Abbas, G., Jomaa, S., Fink, P.,** Brosinsky, A., **Nowak, K.M., Kümmel, S.,** Schkade, U.-K., **Rode, M.** (2024):
Investigating sediment sources using compound-specific stable isotopes and conventional fingerprinting methods in an agricultural loess catchment
Catena **246** , art. 108336 10.1016/j.catena.2024.108336
Main topic T5; Secondary topics T7, T4

2. Ahmad, T., Muhammad, S., Umar, M., Azhar, M.U., Ahmed, A., Ahmed, A., **Ullah, R.** (2024):
Spatial distribution of physicochemical parameters and drinking and irrigation water quality indices in the Jhelum River, Pakistan
Environ. Geochem. Health **46** (8), art. 263 10.1007/s10653-024-02026-y

3. **Ahmadi, P., Dichgans, F.,** Jagau, J., **Schmidt, C.,** Aizinger, V., Gilfedder, B.S., **Fleckenstein, J.H.** (2024):
Systematic CFD-based evaluation of physical factors influencing the spatiotemporal distribution patterns of microplastic particles in lakes
Sci. Total Environ. **917** , art. 170218 10.1016/j.scitotenv.2024.170218

4. **Al Naggar, Y., Wubet, T.** (2024):
Chronic exposure to pesticides disrupts the bacterial and fungal co-existence and the cross-kingdom network characteristics of honey bee gut microbiome
Sci. Total Environ. **906** , art. 167530 10.1016/j.scitotenv.2023.167530

5. **Albracht, C.,** Solbach, M.D., Hennecke, J., Bassi, L., van der Ploeg, G.R., Eisenhauer, N., Weigelt, A., **Buscot, F., Heintz-Buschart, A.** (2024):
Common soil history is more important than plant history for arbuscular mycorrhizal community assembly in an experimental grassland diversity gradient
Biol. Fert. Soils **60** (4), 547 - 562 10.1007/s00374-024-01821-0

6. Albrecht, L., **Huth, A., Fischer, R.,** Papathanassiou, K., Antropov, O., Lehnert, L. (2024):
Estimating forest structure change by means of wavelet statistics using TanDEM-X datasets
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Electronic Proceedings (EUSAR) *2024*
Institute of Electrical and Electronics Engineers (IEEE), New York, NY, p. 1 - 5

7. Aleksza, D., Spiridon, A., **Tarkka, M.,** Hauser, M.-T., Hann, S., Causon, T., Kratena, N., Stanetty, C., George, T.S., Russell, J., Oburger, E. (2024):
Phytosiderophore pathway response in barley exposed to iron, zinc or copper starvation
Plant Sci. **339** , art. 111919 10.1016/j.plantsci.2023.111919

8. Alencar, P.H.L., **Sodoge, J.,** Paton, E.N., **de Brito, M.M.** (2024):
Flash droughts and their impacts - using newspaper articles to assess the perceived consequences of rapidly emerging droughts
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9. **Altdorff, D., Schrön, M.** (2024):
Score filtering for contextualized noise suppression of Poisson distributed geophysical signals
Near Surf. Geophys. **22** (6), 599 - 616 10.1002/nsg.12324

10. Alzate, A., **Hagen, O.** (2024):
Dispersal-diversity feedbacks and their consequences for macroecological patterns
Philos. Trans. R. Soc. B-Biol. Sci. **379** (1907), art. 20230131 10.1098/rstb.2023.0131

11. **Anand, M.,** Hamed, R., Linscheid, N., Silva, P.S., Andre, J., **Zscheischler, J.,** Garry, F.K., Bastos, A. (2024):
Winter climate preconditioning of summer vegetation extremes in the Northern Hemisphere
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19. Asmaryan, S., Khlghatyan, A., Hovsepyan, A., Muradyan, V., Avetisyan, R., Gevorgyan, G., Hayrapetyan, A., **Eissa, M.M.A.A.,** Bernert, H., **Schultze, M., Rinke, K.** (2024):
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Identifying behavior change interventions with deep leverage: a conceptual and qualitative case study with farmers from Germany
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Main topic T5; Secondary topic T9

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Main topic T5; Secondary topic T4

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Main topic T5; Secondary topic T4

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Main topic T5; Secondary topic T4

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Main topic T5; Secondary topic T4

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Nat. Hazards Earth Syst. Sci. **24** (12), 4237 - 4265 10.5194/nhess-24-4237-2024

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Mertensiella *32*
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Main topic T5; Secondary topic T4

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Wallingford, Oxfordshire, 211 - 218 10.5194/piahs-385-211-2024

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EGUsphere
Copernicus Publications, EGU24-10145 10.5194/egusphere-egu24-10145

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Proceedings of IAHS *385*
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Main topic T5; Secondary topic T4

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CEUR Workshop Proceedings *3659*
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Main topic T9; Secondary topics T5, T4

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EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-18396 10.5194/egusphere-egu24-18396

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Society of Wetland Scientists, Europe Chapter, 131 - 133

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In: Fourie, A.B., Tibbett, M., Boggs, G. (eds.)
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Australian Centre for Geomechanics (ACG), Nedlands,
1049 - 1062 10.36487/ACG_repo/2415_75

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Everywhere and locally relevant streamflow simulations in hydrological modeling
EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-8839 10.5194/egusphere-egu24-8839

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Proceedings of the Biennial Meeting of the International Environmental Modelling and Software Society (iEMSs)
Zenodo
11 - 12 10.5281/zenodo.14285085

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EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-17711 10.5194/egusphere-egu24-17711

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EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022
EGUsphere
Copernicus Publications, EGU22-7748 10.5194/egusphere-egu22-7748

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EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-15782 10.5194/egusphere-egu24-15782

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EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024
EGUsphere
Copernicus Publications, EGU24-9850 10.5194/egusphere-egu24-9850

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Evolution of genotypic and phenotypic diversity in multispecies biofilms
bioRxiv 10.1101/2023.10.08.561388

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Surface CO_2 gradients challenge conventional CO_2 emission quantification in lentic water bodies under calm conditions
EGUsphere 10.5194/egusphere-2024-2550
Main topic T5; Secondary topic T4

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ESS Open Archive 10.22541/essoar.173324874.41657715/v1

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bioRxiv 10.1101/2024.04.19.590051

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From insufficient rainfall to livelihoods: understanding the cascade of drought impacts and policy implications
EGUsphere 10.5194/egusphere-2024-650

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bioRxiv 10.1101/2024.03.27.586835

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EcoEvoRxiv 10.32942/X2XS66

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Harnessing social media data to track species range shifts
EcoEvoRxiv 10.32942/X2R63N

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Smartphones as a new tool for biodiversity research
EcoEvoRxiv 10.32942/X2DG7T

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Advancing plant biomass measurements: integrating smartphone-based 3D scanning techniques for enhanced ecosystem monitoring
EcoEvoRxiv 10.32942/X2T92X

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The future bioenergy plant portfolio in the German power sector: scenarios for different framework conditions
Research Square 10.21203/rs.3.rs-4898688/v1

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Climate change may impair the transition to a fully renewable energy system
SSRN 10.2139/ssrn.4960744

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Bio-Eng-LMM AI assist chatbot: A comprehensive tool for research and education
arXiv 10.48550/arXiv.2409.07110

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Climate aware deep neural networks (CADNN) for wind power simulation
arXiv 10.48550/arXiv.2412.12160

914. Fu, X., Fan, K., **Zozmann, H., Schüler, L., Calabrese, J.M.** (2024):
Simultaneous identification of changepoints and model parameters in switching dynamical systems
bioRxiv 10.1101/2024.01.30.577909

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Geometric and demographic effects explain contrasting fragmentation-biodiversity relationships across scales
bioRxiv 10.1101/2024.02.01.577731

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Forest biodiversity and structure modulate human health benefits and risks
Research Square 10.21203/rs.3.rs-4669329/v1

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Understanding the differences in various satellite remotely sensed soil moisture downscaling methods
SSRN 10.2139/ssrn.4758452

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^{14}C-age of carbon used to grow fine roots reflects tree carbon status
bioRxiv 10.1101/2024.10.15.618388

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Uncertainty in blacklisting potential Pacific plant invaders using species distribution models
bioRxiv 10.1101/2024.12.11.627501

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Home range spillover in habitats with impassable boundaries: Causes, biases, and corrections using autocorrelated kernel density estimation
bioRxiv 10.1101/2024.11.20.624379

921. Kaijser, W., Schürings, C., Schneider, A., Prati, S., Musiol, M., Wenskus, F., Brauer, V.S., Feldhaus, L., Wagner, C.S., Bayer, R., Pimentel, I.M., Birk, S., **Brauns, M.,** Dunne, L., Enss, J., Farias, L., Feld, C.K., Gillmann, S.M., Hupalo, K., Osakpolor, S.E., Olberg, S., Schlautmann, C., Schwelm, J., Wells, N.E., Sures, B., Schäfer, R.B., Hering, D. (2024):
Global-scale quantification of responses to anthropogenic stressors in six riverine organism groups
bioRxiv 10.1101/2024.07.06.602319

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TwinEco: A unified framework for dynamic data-driven digital twins in ecology
bioRxiv 10.1101/2024.07.23.604592

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EcoEvoRxiv 10.32942/X2K34F

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SSRN 10.2139/ssrn.4873752

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Scientific literature on carbon dioxide removal much larger than previously suggested: insights from an AI-enhanced systematic map
Research Square 10.21203/rs.3.rs-4109712/v1

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FINAM – is not a model (v1.0): a new Python-based model coupling framework
Geoscientific Model Development Discussions 10.5194/gmd-2024-144

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Measuring crop acreage adaptation to changing yields and prices: An empirical analysis for agriculture in Germany
SSRN 10.2139/ssrn.4728661

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Role of science and scientists in public debates around environmental policy negotiations: the case of nature restoration and agrochemical regulation in the European Union
Zenodo 10.5281/zenodo.10631871

929. Pena, R., Awad, A., **Nawaz, A.,** Shang, Y., **Wubet, T.,** Tibbett, M. (2024):
Unravelling the facilitation-competition continuum among ectomycorrhizal and saprotrophic fungi
SSRN 10.2139/ssrn.4724438

930. **Rozario, K.,** Shaw, T., Marselle, M.R., **Oh, R.R.Y.,** Schröger, E., Botero, M.G., Frey, J., **Ştefan, V.,** Ștefan, V., Müller, S., Scherer-Lorenzen, M., Jaroszewicz, B., Verheyen, K., **Bonn, A.** (2024):
Perceived biodiversity: is what we measure also what we see and hear?
bioRxiv 10.1101/2024.04.03.587905

931. Schindler, H., Merfort, L., Lenz, V., Majer, S., **Thrän, D.** (2024):
Policies for sustainable forest bioenergy in the EU: The renewable energy directive, the role of carbon pricing and implications for wood-cascading in the bioeconomy
SSRN

932. Schmidt, H., **Schlüter, S.,** Raynaud, X., Felde, V.J.M.N.L., Zeller-Plumhoff, B., Richter, A., Nunan, N. (2024):
Unexpectedly dense colonization of soil pore space by microbes
bioRxiv 10.1101/2024.04.10.588810

933. **Ştefan, V., Workman, A.M., Cobain, J.C., Rakosy, D., Knight, T.M.** (2024):
Utilising affordable smartphones and open-source time-lapse photography for monitoring pollinators
bioRxiv 10.1101/2024.01.31.578173

934. Yao, W., Morganti, T., Wu, J., **Borchers, M.,** Anschütz, A.-A., Bednarz, L.-K., Bhaumik, A., Boettcher, M., Burkhard, K., Cabus, T., Chua, A.S., Diercks, I., Esposito, M., Fink, M., Fouqueray, M., Gasanzade, F., Geilert, S., Hauck, J., Havermann, F., Hellige, I., Hoog, S., Jürchott, M., Kalapurakkal, H.T., Kemper, J., Kremin, I., Lange, I., Marquez Lencina-Avila, J., Liadova, M., Liu, F., Mathesius, S., Mehendale, N., Nagwekar, T., Philippi, M., Neves da Luz, G.L., Ramasamy, M., Stahl, F., Tank, L., Vorrath, M.-E., Westmark, L., Wey, H.-W., Wollnik, R., Wölfelschneider, M., Bach, W., Bischof, K., Boersma, M., Daewel, U., Fernández-Méndez, M., Geuer, J., Keller, D.P., Kopf, A.J., Merk, C., Moosdorf, N., Oppelt, N.M., Oschlies, A., Pongratz, J., Proelss, A., Rehder, G., Rüpke, L.H., Szarka, N., **Thrän, D.,** Wallmann, K., Mengis, N. (2024):
Exploring site-specific carbon dioxide removal options with storage or sequestration in the marine environment - The 10 Mt CO2 yr-1 removal challenge for Germany
ESS Open Archive 10.22541/essoar.171650351.11778445/v1

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Utilizing a multi-model framework to study 100-year runoff events in small ungauged catchments: A case study in Thuringia, Germany
SSRN 10.2139/ssrn.4982077

936. zu Castell, W., Dransch, D., Juckeland, G., Meistring, M., Fritzsch, B., **Gey, R.,** Höpfner, B., Köhler, M., Meeßen, C., Mehrtens, H., Mühlbauer, F., Schindler, S., **Schnicke, T.,** Bertelmann, R. (2024):
Towards a quality indicator for research data publications and research software publications – A vision from the Helmholtz Association
arXiv 10.48550/arXiv.2401.08804

UFZ author index

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

Y

Z

Weitere

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Helmholtz Centre for Environmental Research - UFZ

Permoserstraße 15
04318 Leipzig
Germany
www.ufz.de

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