

Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung GmbH – UFZ

Forschen für die Umwelt

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2018 erschienenen Publikationen, die von Mitarbeitern der Helmholtz-Zentrum für Umweltforschung GmbH - UFZ verfasst, mitverfasst oder herausgegeben wurden.

Redaktionsschluss für diese Publikationsliste war der 15. Februar 2019.
Im Unterschied zu externen Autoren sind UFZ-Angehörige bei allen Publikationen durch **fette Schrift** hervorgehoben.

Das anschließende alphabetische Register verzeichnet alle UFZ-Autoren mit den jeweiligen laufenden Nummern ihrer Publikationen.

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Artikel in ISI und SCOPUS gelisteten Zeitschriften

1. Adam, I., Dewi, D.L., Mooiweer, J., Sadik, A., Mohapatra, S.R., Berdel, B., Keil, M., Sonner, J.K., Thedieck, K., Rose, A.J., Platten, M., Heiland, I., **Trump, S.**, Opitz, C.A. (2018):
Upregulation of tryptophanyl-tRNA synthethase adapts human cancer cells to nutritional stress caused by tryptophan degradation
Oncoimmunology **7** (12), e1486353
2. **Adelowo, O.O., Helbig, T., Knecht, C., Reincke, F., Mäusezahl, I., Müller, J.A.** (2018):
High abundances of class 1 integrase and sulfonamide resistance genes, and characterisation of class 1 integron gene cassettes in four urban wetlands in Nigeria
PLOS One **13** (11), e0208269
3. **Adelowo, O.O., Vollmers, J., Mäusezahl, I., Kaster, A.-K., Müller, J.A.** (2018):
Detection of the carbapenemase gene *bla*_{VIM-5} in members of the *Pseudomonas putida* group isolated from polluted Nigerian wetlands
Sci. Rep. **8**, art. 15116
4. Adrian, R., **Weitere, M., Borchardt, D.** (2018):
An appreciation of Professor Dr. Norbert Walz for a quarter-century of service to the International Review of Hydrobiology
Int. Rev. Hydrobiol. **103** (1-2), 3 - 4
5. Alavipanah, S., Schreyer, J., **Haase, D.**, Lakes, T., Qureshi, S. (2018):
The effect of multi-dimensional indicators on urban thermal conditions
J. Clean Prod. **177** , 115 - 123
6. **Altenburger, R., Scholze, M., Busch, W., Escher, B.I., Jakobs, G., Krauss, M., Krüger, J.**, Neale, P.A., Ait-Aissa, S., Almeida, A.C., Seiler, T.-B., Brion, F., Hilscherová, K., Hollert, H., Novák, J., **Schlichting, R.**, Serra, H., Shao, Y., Tindall, A., Tolefsen, K.-E., Umbuzeiro, G., Williams, T.D., Kortenkamp, A. (2018):
Mixture effects in samples of multiple contaminants – An inter-laboratory study with manifold bioassays
Environ. Int. **114** , 95 - 106
7. Al-Zreiqat, I., Abbassi, B., Headley, T., **Nivala, J., van Afferden, M., Müller, R.A.** (2018):
Influence of septic tank attached growth media on total nitrogen removal in a recirculating vertical flow constructed wetland for treatment of domestic wastewater
Ecol. Eng. **118** , 171 - 178

8. An, X.-L., Su, J.-C., Li, B., **Ouyang, W.**, Zhao, Y., Chen, Q.-L., Cui, L., Chen, H., Gillings, M.R., Zhang, T., Zhu, Y.-G. (2018):
Tracking antibiotic resistome during wastewater treatment using high throughput quantitative PCR
Environ. Int. **117** , 146 - 153
9. Anderson, T.M., Griffith, D.M., Grace, J.B., Lind, E.M., Adler, P.B., Biederman, L.A., Blumenthal, D.M., Daleo, P., Firn, J., Hagenah, N., **Harpole, W.S.**, MacDougall, A.S., McCulley, R.L., Prober, S.M., Risch, A.C., Sankaran, M., Schuetz, M., Seabloom, E.W., Stevens, C.J., Sullivan, L.L., Wragg, P.D., Borer, E.T. (2018):
Herbivory and eutrophication mediate grassland plant nutrient responses across a global climatic gradient
Ecology **99** (4), 822 - 831
10. Andersson, L., Herring, A., **Schlüter, S.**, Wildenshild, D. (2018):
Defining a novel pore-body to pore-throat "Morphological Aspect Ratio" that scales with residual non-wetting phase capillary trapping in porous media
Adv. Water Resour. **122** , 251 - 262
11. Armstrong, A., **Fischer, R.**, **Huth, A.**, Shugart, H., Fatooyinbo, T. (2018):
Simulating forest dynamics of lowland rainforests in Eastern Madagascar
Forests **9** (4), art. 214
12. Arukwe, A., Carteny, C.C., Eggen, T., **Möder, M.** (2018):
Novel aspects of uptake patterns, metabolite formation and toxicological responses in Salmon exposed to the organophosphate esters—Tris(2-butoxyethyl)- and tris(2-chloroethyl) phosphate
Aquat. Toxicol. **196** , 146 - 153
13. Ashraf, U., Chaudhry, M.N., Ahmad, S.R., Ashraf, I., **Arslan, M.**, Noor, H., Jabbar, M. (2018):
Impacts of climate change on *Capparis spinosa* L. based on ecological niche modeling
PeerJ **6** , e5792
14. Atashgahi, S., Hornung, B., van der Waals, M.J., **Nunes da Rocha, U.**, Hugenholtz, F., Nijssen, B., Molenaar, D., van Spanning, R., Stams, A.J.M., Gerritse, J., Smidt, H. (2018):
A benzene-degrading nitrate-reducing microbial consortium displays aerobic and anaerobic benzene degradation pathways
Sci. Rep. **8** , art. 4490
15. Atashgahi, S., Sánchez-Andrea, I., **Heipieper, H.J.**, van der Meer, J.R., Stams, A.J.M., Smidt, H. (2018):
Prospects for harnessing biocide resistance for bioremediation and detoxification
Science **360** (6390), 743 - 746

16. Aulenta, F., Puig, S., **Harnisch, F.** (2018):
Microbial electrochemical technologies: maturing but not mature. Editorial
Microb. Biotechnol. **11** (1), 18 - 19
17. Averesch, N.J.H., **Krömer, J.O.** (2018):
Metabolic engineering of the shikimate pathway for production of aromatics and derived compounds – present and future strain construction strategies
Front. Bioeng. Biotechnol. **6**, art. 32
18. Averesch, N.J.H., Martínez, V.S., Nielsen, L.K., **Krömer, J.O.** (2018):
Toward synthetic biology strategies for adipic acid production: An *in silico* tool for combined thermodynamics and stoichiometric analysis of metabolic networks
ACS Synth. Biol. **7** (2), 490 - 509
19. **Ayllón, D., Grimm, V., Attinger, S.**, Hauhs, M., Simmer, C., Vereecken, H., Lischeid, G. (2018):
Cross-disciplinary links in environmental systems science: Current state and claimed needs identified in a meta-review of process models
Sci. Total Environ. **622-623**, 945 - 973
20. **Ayllón, D., Grimm, V.**, Railsback, S.F., Almodóvar, A., Nicola, G.G., Vincenzi, S., Elvira, B., **Grimm, V.** (2018):
Eco-evolutionary responses to recreational fishing under different harvest regulations
Ecol. Evol. **8** (19), 9600 - 9613
21. Baatz, R., Sullivan, P.L., Li, L., Weintraub, S.R., Loescher, H.W., **Mirtl, M.**, Groffman, P.M., Wall, D.H., Young, M., White, T., Wen, H., **Zacharias, S.**, Kühn, I., Tang, J., Gaillardet, J., Braud, I., Flores, A.N., Kumar, P., Lin, H., Ghezzehei, T., Jones, J., Gholz, H.L., Vereecken, H., Van Looy, K. (2018):
Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling
Earth Syst. Dynam. **9** (2), 593 - 609
22. Bachmann, D., **Roscher, C.**, Buchmann, N. (2018):
How do leaf trait values change spatially and temporally with light availability in a grassland diversity experiment?
Oikos **127** (7), 935 - 948
23. Bader, M., Müller, K., Foerstendorf, H., **Schmidt, M.**, Simmons, K., Swanson, J.S., Reed, D.T., Stumpf, T., Cherkouk, A. (2018):
Comparative analysis of uranium bioassociation with halophilic bacteria and archaea
PLOS One **13** (1), e0190953

24. Bader, M., Rossberg, A., Steudtner, R., Drobot, B., Großmann, K., **Schmidt, M., Musat, N.**, Stumpf, T., Ikeda-Ohno, A., Cherkouk, A. (2018):
Impact of Haloarchaea on speciation of uranium—A multispectroscopic approach
Environ. Sci. Technol. **52** (12), 12895 - 12904
25. Bannar-Martin, K.H., Kremer, C.T., Ernest, S.K.M., Leibold, M.A., **Auge, H.**, Chase, J., Declerck, S.A.J., Eisenhauer, N., **Harpole, S.**, Hillebrand, H., Isbell, F., Koffel, T., Larsen, S., Narwani, A., Petermann, J.S., **Roscher, C.**, Cabral, J.S., Supp, S.R. (2018):
Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (CAFE) approach
Ecol. Lett. **21** (2), 167 - 180
26. Banos, S., **Lentendu, G.**, Kopf, A., **Wubet, T.**, Glöckner, F.O., Reich, M. (2018):
A comprehensive fungi-specific 18S rRNA gene sequence primer toolkit suited for diverse research issues and sequencing platforms
BMC Microbiol. **18** , art. 190
27. **Banzhaf, E.**, Arndt, T., Ladiges, J. (2018):
Potenziale städtischer Gewerbebrachflächen für eine integrierte Stadtentwicklung.
Monitoring für ein nachhaltiges Flächenmanagement am Beispiel der wieder wachsenden Stadt Leipzig. Potential performance of commercial urban Brownfield sites in integrated urban development – Monitoring for sustainable land-use management based on the example of the city of Leipzig
disP - The Planning Review **54** (2), 26 - 43
28. **Baroni, G.**, Scheiffele, L.M., **Schrön, M.**, Ingwersen, J., Oswald, S.E. (2018):
Uncertainty, sensitivity and improvements in soil moisture estimation with cosmic-ray neutron sensing
J. Hydrol. **564** , 873 - 887
29. **Bartke, S.**, Boekhold, A.E., Brils, J., Grimski, D., Ferber, U., Gorgon, J., Guérin, V., Makeschin, F., Maring, L., Nathanail, C.P., Villeneuve, J., Zeyer, J., **Schröter-Schlaack, C.** (2018):
Soil and land use research in Europe: Lessons learned from INSPIRATION bottom-up strategic research agenda setting
Sci. Total Environ. **622-623** , 1408 - 1416
30. **Bartke, S., Hagemann, N.**, Harries, N., **Hauck, J.**, Bardos, P. (2018):
Market potential of nanoremediation in Europe – Market drivers and interventions identified in a deliberative scenario approach
Sci. Total Environ. **619–620** , 1040 - 1048

31. **Bartkowski, B., Bartke, S.** (2018):
Leverage points for governing agricultural soils: a review of empirical studies of European farmers' decision-making
Sustainability **10** (9), art. 3179
32. **Bartkowski, B., Hansjürgens, B., Möckel, S., Bartke, S.** (2018):
Institutional economics of agricultural soil ecosystem services
Sustainability **10** (7), art. 2447
33. **Bartkowski, B., Lienhoop, N.** (2018):
Beyond rationality, towards reasonableness: Enriching the theoretical foundation of deliberative monetary valuation
Ecol. Econ. **143**, 97 - 104
34. **Bartkowski, B., Theesfeld, I., Pirscher, F., Timaeus, J.** (2018):
Snipping around for food: Economic, ethical and policy implications of CRISPR/Cas genome editing
Geoforum **96**, 172 - 180
35. Barton, D.N., Kelemen, E., Dick, J., Martin-Lopez, B., Gómez-Baggethun, E., Jacobs, S., Hendriks, C.M.A., Termansen, M., García-Llorente, M., Primmer, E., Dunford, R., Harrison, P.A., Turkelboom, F., Saarikoski, H., van Dijk, J., Rusch, G.M., Palomo, I., Yli-Pelkonen, V.J., Carvalho, L., Baró, F., Langemeyer, J., Tjalling van der Wal, J., Mederly, P., Priess, J.A., Luque, S., Berry, P., Santos, R., Odee, D., Martines Pastur, G., García Blanco, G., Saarela, S.-R., Silaghi, D., Pataki, G., Masi, F., Vadineanu, A., Mukhopadhyay, R., Lapola, D.M. (2018):
(Dis) integrated valuation – Assessing the information gaps in ecosystem service appraisals for governance support
Ecosystem Services **29** (Part C), 529 - 541
36. **Bashir, S., Kuntze, K., Vogt, C., Nijenhuis, I.** (2018):
Anaerobic biotransformation of hexachlorocyclohexane isomers by *Dehalococcoides* species and an enrichment culture
Biodegradation **29** (4), 409 - 418
37. Bastida, F., **Jehmlich, N.**, Torres, I.F., García, C. (2018):
The extracellular metaproteome of soils under semiarid climate: A methodological comparison of extraction buffers
Sci. Total Environ. **619–620**, 707 - 711
38. Bastidas, L., Crowther, T.W., Prieto, I., Routh, D., García, C., **Jehmlich, N.** (2018):
Climate shapes the protein abundance of dominant soil bacteria
Sci. Total Environ. **640–641**, 18 - 21

39. **Bauer, A., Moeller, L.**, Wedwitschka, H., Stinner, W., **Zehnsdorf, A.** (2018):
Anaerobic digestion of mixed silage of waterweed biomass and wheat straw in a
long-term semi-continuous biogas production process
Energy Sustain. Soc. **8**, art. 4
40. **Bauer, M.** (2018):
Cell-type-specific disturbance of DNA methylation pattern: a chance to get more benefit
from and to minimize cohorts for epigenome-wide association studies
Int. J. Epidemiol. **47** (3), 917 - 927
41. Baveye, P.C., Otten, W., Kravchenko, A., Balseiro-Romero, M., Beckers, É.,
Chalhoub, M., Darnault, C., Eickhorst, T., Garnier, P., Hapca, S., Kiranyaz, S.,
Monga, O., Mueller, C.W., Nunan, N., Pot, V., **Schlüter, S.**, Schmidt, H., **Vogel, H.-J.**
(2018):
Emergent properties of microbial activity in heterogeneous soil microenvironments:
Different research approaches are slowly converging, yet major challenges remain
Front. Microbiol. **9**, art. 1929
42. **Becher, E., Heese, A., Claußen, L., Eisen, S., Jehmlich, N., Rohwerder, T., Purswani, J.** (2018):
Active site alanine preceding catalytic cysteine determines unique substrate specificity in
bacterial CoA-acylating prenial dehydrogenase
FEBS Lett. **592** (7), 1150 - 1160
43. **Beck, S.**, Mahony, M. (2018):
The IPCC and the new map of science and politics
Wiley Interdiscip. Rev.-Clim. Chang. **9** (6), art. e547
44. **Becker, R.** (2018):
Generation of time-coupled wind power infeed scenarios using pair-copula construction
IEEE Trans. Sustain. Energy **9** (3), 1298 - 1306
45. **Becker, R., Thrän, D.** (2018):
Optimal siting of wind farms in wind energy dominated power systems
Energies **11** (4), art. 978
46. **Beckers, L.-M., Busch, W., Krauss, M., Schulze, T., Brack, W.** (2018):
Characterization and risk assessment of seasonal and weather dynamics in organic
pollutant mixtures from discharge of a separate sewer system
Water Res. **135**, 122 - 133
47. **Begg, C.** (2018):
Power, responsibility and justice: a review of local stakeholder participation in European
flood risk management
Local Environment **23** (4), 383 - 397

48. **Begg, C., Callsen, I., Kuhlicke, C.**, Kelman, I. (2018):
The role of local stakeholder participation in flood defence decisions in the United Kingdom and Germany
J. Flood Risk Manag. **11** (2), 180 - 190
49. Behrens, G., Winzen, R., Rehage, N., Dörrie, A., Barsch, M., **Hoffmann, A.**, **Hackermüller, J.**, Tiedje, C., Heissmeyer, V., Holtmann, H. (2018):
A translational silencing function of MCPIP1/Regnase-1 specified by the target site context
Nucleic Acids Res. **46** (8), 4256 - 4270
50. Bencatel, J., **Ferreira, C.C.**, Barbosa, A.M., Rosalino, L.M., Álvares, F. (2018):
Research trends and geographical distribution of mammalian carnivores in Portugal (SW Europe)
PLOS One **13** (11), e0207866
51. Bender, I.M.A., Kissling, W.D., Blendinger, P.G., Böhning-Gaese, K., Hensen, I., **Kühn, I.**, Muñoz, M.C., Neuschulz, E.L., Nowak, L., Quitián, M., Saavedra, F., Santillán, V., Töpfer, T., **Wiegand, T.**, Dehling, D.M., Schleuning, M. (2018):
Morphological trait matching shapes plant-frugivore networks across the Andes
Ecography **41** (11), 1910 - 1919
52. Bennett, J.M., Calosi, P., Clusella-Trullas, S., Martínez, B., Sunday, J., Algar, A.C., Araújo, M.B., Hawkins, B.A., Keith, S., **Kühn, I.**, Rahbek, C., Rodríguez, L., Singer, A., Villalobos, F., Olalla-Tárraga, M.Á., Morales-Castilla, I. (2018):
GlobTherm, a global database on thermal tolerances for aquatic and terrestrial organisms
Sci. Data **5** , art. 180022
53. Bennett, J.M., Steets, J.A., Burns, J.H., **Durka, W.**, Vamosi, J.C., Arceo-Gómez, G., Burd, M., Burkle, L.A., Ellis, A.G., Freitas, L., Li, J., Rodger, J.G., Wolowski, M., Xia, J., Ashman, T.-L., **Knight, T.M.** (2018):
GloPL, a global data base on pollen limitation of plant reproduction
Sci. Data **5** , art. 180249
54. Bennett, J.M., Thompson, A., Goia, I., **Feldmann, R.**, Ştefan, V., Bogdan, A., **Rakosy, D.**, Beloiu, M., Biro, I.-B., Bluemel, S., Filip, M., **Madaj, A.-M.**, Martin, A., **Passonneau, S.**, Kalisch, D.P., Scherer, G., **Knight, T.M.** (2018):
A review of European studies on pollination networks and pollen limitation, and a case study designed to fill in a gap
AoB Plants **10** (6), ply068

55. Bercovici, S.K., Koch, B.P., **Lechtenfeld, O.J.**, McCallister, S.L., Schmitt-Kopplin, P., Hansell, D.A. (2018): Aging and molecular changes of dissolved organic matter between two deep oceanic end-members
Glob. Biogeochem. Cycle **32** (10), 1449 - 1456
56. **Berghöfer, A.**, Berger, J., Koné, I., Tröger, U., Caspary, H.U. (2018): Ecosystem services for conservation finance: applying the TEEB stepwise approach in Côte d'Ivoire
Biodivers. Conserv. **27** (11), 2897 - 2917
57. Bernardo, H.L., Vitt, P., Goad, R., Masi, S., **Knight, T.M.** (2018): Count population viability analysis finds that interacting local and regional threats affect the viability of a rare plant
Ecol. Indic. **93** , 822 - 829
58. Betto-Colliard, C., **Hofmann, S.**, Sermier, R., Perrin, N., Stöck, M. (2018): Profound genetic divergence and asymmetric parental genome contributions as hallmarks of hybrid speciation in polyploid toads
Proc. R. Soc. B-Biol. Sci. **285** (1872), art. 20172667
59. Beukema, W., Martel, A., Nguyen, T.T., Goka, K., **Schmeller, D.S.**, Yuan, Z., Laking, A.E., Nguyen, T.Q., Lin, C.-F., Shelton, J., **Loyau, A.**, Pasmans, F. (2018): Environmental context and differences between native and invasive observed niches of *Batrachochytrium salamandrivorans* affect invasion risk assessments in the Western Palaearctic
Divers. Distrib. **24** (12), 1788 - 1801
60. **Bezama, A.** (2018): Understanding the systems that characterise the circular economy and the bioeconomy
Waste Manage. Res. **36** (7), 553 - 554
61. Bhattacharai, S., Cassarini, C., Rene, E.R., **Kümmel, S.**, Esposito, G., Lens, P.N.L. (2018): Enrichment of ANME-2 dominated anaerobic methanotrophy from cold seep sediment in an external ultrafiltration membrane bioreactor
Eng. Life Sci. **18** (6), 368 - 378
62. Bialic-Murphy, L., Gaoue, O.G., **Knight, T.** (2018): Using Transfer Function Analysis to develop biologically and economically efficient restoration strategies
Sci. Rep. **8** , art. 2094

63. Binkenstein, J., Klein, A.-M., Assmann, T., **Buscot, F.**, Erfmeier, A., Ma, K., Pietsch, K.A., Schmidt, K., Scholten, T., **Wubet, T.**, Bruelheide, H., Schuldt, A., Staab, M. (2018):
Multi-trophic guilds respond differently to changing elevation in a subtropical forest
Ecography **41** (6), 1013 - 1023
64. **Birke, A., Scholz, S.** (2018):
Zebrafish embryo and acute fish toxicity test show similar sensitivity for narcotic compounds
ALTEX-Altern. Anim. Exp. **36** (1), 131 - 135
65. Birkholzer, J.T., Bond, A.E., Hudson, J.A., Jing, L., Tsang, C.-F., Shao, H., **Kolditz, O.** (2018):
DECOVALEX-2015: an international collaboration for advancing the understanding and modeling of coupled thermo-hydro-mechanical-chemical (THMC) processes in geological systems
Environ. Earth Sci. **77** (14), art. 539
66. **Birkigt, J., Stumpp, C., Małoszewski, P., Nijenhuis, I.** (2018):
Evaluation of the hydrological flow paths in a gravel bed filter modeling a horizontal subsurface flow wetland by using a multi-tracer experiment
Sci. Total Environ. **621** , 265 - 272
67. **Bittermann, K., Linden, L., Goss, K.-U.** (2018):
Screening tools for the bioconcentration potential of monovalent organic ions in fish
Environ. Sci.-Proc. Imp. **20** (5), 845 - 853
68. Bittner, L., **Teixido, E., Seiwert, B., Escher, B.I., Klüver, N.** (2018):
Influence of pH on the uptake and toxicity of β-blockers in embryos of zebrafish, *Danio rerio*
Aquat. Toxicol. **201** , 129 - 137
69. Bjerketorp, J., Röling, W.F.M., Feng, X.-M., Hernández Garcia, A., **Heipieper, H.J., Håkansson, S.** (2018):
Formulation and stabilization of an *Arthrobacter* strain with good storage stability and 4-chlorophenol-degradation activity for bioremediation
Appl. Microbiol. Biotechnol. **102** (4), 2031 - 2040

70. Bjorkman, A.D., Myers-Smith, I.H., Elmendorf, S.C., Normand, S., Rüger, N., Beck, P.S.A., Blach-Overgaard, A., Blok, D., Cornelissen, J.H.C., Forbes, B.C., Georges, D., Goetz, S.J., Guay, K.C., Henry, G.H.R., HilleRisLambers, J., Hollister, R.D., Karger, D.N., Kattge, J., Manning, P., Prevéy, J.S., Rixen, C., Schaepman-Strub, G., Thomas, H.J.D., Vellend, M., Wilmking, M., Wipf, S., Carbognani, M., Hermanutz, L., Lévesque, E., Molau, U., Petraglia, A., Soudzilovskaia, N.A., Spasojevic, M.J., Tomaselli, M., Vowles, T., Alatalo, J.M., Alexander, H.D., Anadon-Rosell, A., Angers-Blondin, S., te Beest, M., Berner, L., Björk, R.G., Buchwal, A., Buras, A., Christie, K., Cooper, E.J., Dullinger, S., Elberling, B., **Eskelinen, A.**, Frei, E.R., Grau, O., Grogan, P., Hallinger, M., Harper, K.A., Heijmans, M.M.P.D., Hudson, J., Hülber, K., Iturrate-Garcia, M., Iversen, C.M., Jaroszynska, F., Johnstone, J.F., Jørgensen, R.H., Kaarlejärvi, E., Klady, R., Kuleza, S., Kulonen, A., Lamarque, L.J., Lantz, T., Little, C.J., Speed, J.D.M., Michelsen, A., Milbau, A., Nabe-Nielsen, J., Schøler Nielsen, S., Ninot, J.M., Oberbauer, S.F., Olofsson, J., Onipchenko, V.G., Rumpf, S.B., Semenchuk, P., Shetti, R., Siegwart Collier, L., Street, L.E., Suding, K.N., Tape, K.D., Trant, A., Treier, U.A., Tremblay, J.P., Tremblay, M., Venn, S., Weijers, S., Zamin, T., Boulanger-Lapointe, N., Gould, W.A., Hik, D.S., Hofgaard, A., Jónsdóttir, I.S., Jorgenson, J., Klein, J., Magnusson, B., Tweedie, C., Wookey, P.A., Bahn, M., Blonder, B., van Bodegom, P.M., Bond-Lamberty, B., Campetella, G., Cerabolini, B.E.L., Chapin III, F.S., Cornwell, W.K., Craine, J., Dainese, M., de Vries, F.T., Díaz, S., Enquist, B.J., Green, W., Milla, R., Niinemets, Ü., Onoda, Y., Ordoñez, J.C., Ozinga, W.A., Penuelas, J., Poorter, H., Poschlod, P., Reich, P.B., Sandel, B., Schamp, B., Sheremetev, S., Weiher, E. (2018):
Plant functional trait change across a warming tundra biome
Nature **562** (7725), 57 - 62

71. Bjorkman, A.D., Myers-Smith, I.H., Elmendorf, S.C., Normand, S., Thomas, H.J.D., Alatalo, J.M., Alexander, H., Anadon-Rosell, A., Angers-Blondin, S., Bai, Y., Baruah, G., te Beest, M., Berner, L., Björk, R.G., Blok, D., Bruelheide, H., Buchwal, A., Buras, A., Carbognani, M., Christie, K., Collier, L.S., Cooper, E.J., Cornelissen, J.H.C., Dickinson, K.J.M., Dullinger, S., Elberling, B., **Eskelinen, A.**, Forbes, B.C., Frei, E.R., Iturrate-Garcia, M., Good, M.K., Grau, O., Green, P., Greve, M., Grogan, P., Haider, S., Hájek, T., Hallinger, M., Happonen, K., Harper, K.A., Heijmans, M.M.P.D., Henry, G.H.R., Hermanutz, L., Hewitt, R.E., Hollister, R.D., Hudson, J., Hülber, K., Iversen, C.M., Jaroszynska, F., Jiménez-Alfaro, B., Johnstone, J., Jorgensen, R.H., Kaarlejärvi, E., Klady, R., Klimešová, J., Korsten, A., Kuleza, S., Kulonen, A., Lamarque, L.J., Lantz, T., Lavalle, A., Lembrechts, J.J., Lévesque, E., Little, C.J., Luoto, M., Macek, P., Mack, M.C., Mathakutha, R., Michelsen, A., Milbau, A., Molau, U., Morgan, J.W., Mörsdorf, M.A., Nabe-Nielsen, J., Schøler Nielsen, S., Ninot, J.M., Oberbauer, S.F., Olofsson, J., Onipchenko, V.G., Petraglia, A., Pickering, C., Prevéy, J.S., Rixen, C., Rumpf, S.B., Schaeppman-Strub, G., Semenchuk, P., Shetti, R., Soudzilovskaia, N.A., Spasojevic, M.J., Speed, J.D.M., Street, L.E., Suding, K., Tape, K.D., Tomaselli, M., Trant, A., Treier, U.A., Tremblay, J.-P., Tremblay, M., Venn, S., Virkkala, A.-M., Vowles, T., Weijers, S., Wilming, M., Wipf, S., Zamin, T. (2018):
Tundra Trait Team: A database of plant traits spanning the tundra biome
Glob. Ecol. Biogeogr. **27** (12), 1402 - 1411
72. Blaen, P.J., **Kurz, M.J.**, Drummond, J.D., Knapp, J.L.A., Mendoza-Lera, C., Schmadel, N.M., Klaar, M.J., Jäger, A., Folegot, S., Lee-Cullin, J., Ward, A.S., Zarnetske, J.P., Datry, T., Milner, A.M., Lewandowski, J., Hannah, D.M., Krause, S. (2018):
Woody debris is related to reach-scale hotspots of lowland stream ecosystem respiration under baseflow conditions
Ecohydrology **11** (5), e1952
73. **Blaser, S.R.G.A., Schlüter, S., Vetterlein, D.** (2018):
How much is too much?—Influence of X-ray dose on root growth of faba bean (*Vicia faba*) and barley (*Hordeum vulgare*)
PLOS One **13** (3), e0193669
74. **Bleicher, A.** (2018):
Geothermie als Ursache anthropogener Naturgefahren. Möglichkeiten zur nachhaltigen Entwicklung der Technologie. Geothermal energy as a cause of anthropogenic natural hazards. Possibilities for sustainable development of this technology
Geographische Rundschau **70** (7/8), 34 - 39
75. **Boenecke, E.**, Lueck, E., Ruehlmann, J., **Gruendling, R.**, **Franko, U.** (2018):
Determining the within-field yield variability from seasonally changing soil conditions
Precis. Agric. **19** (4), 750 - 769

76. **Boenn, M.** (2018):
ShRangeSim: Simulation of single nucleotide polymorphism clusters in next-generation sequencing data
J. Comput. Biol. **25** (6), 613 - 622
77. **Bohn, F.J., May, F., Huth, A.** (2018):
Species composition and forest structure explain the temperature sensitivity patterns of productivity in temperate forests
Biogeosciences **15** (6), 1795 - 1813
78. Bol, R., Gruau, G., Mellander, P.-E., Dupas, R., Bechmann, M., Skarbøvik, E., Bieroza, M., Djodjic, F., Glendell, M., Jordan, P., van der Grift, B., **Rode, M.**, Smolders, E., Verbeeck, M., Gu, S., Klumpp, E., Pohle, I., Fresne, M., Gascuel-Odoux, C. (2018): Challenges of reducing phosphorus based water eutrophication in the agricultural landscapes of Northwest Europe
Front. Mar. Sci. **5** , art. 276
79. **Bolay, P., Muro-Pastor, M.I., Florencio, F.J., Klähn, S.** (2018):
The distinctive regulation of cyanobacterial glutamine synthetase
Life **8** (4), art. 52
80. Boleij, M., Pabst, M., **Neu, T.R.**, van Loosdrecht, M.C.M., Lin, Y. (2018):
Identification of glycoproteins isolated from extracellular polymeric substances of full-scale anammox granular sludge
Environ. Sci. Technol. **52** (22), 13127 - 13135
81. **Bonk, F., Popp, D., Harms, H., Centler, F.** (2018):
PCR-based quantification of taxa-specific abundances in microbial communities: Quantifying and avoiding common pitfalls
J. Microbiol. Methods **153** , 139 - 147
82. **Bonk, F., Popp, D., Weinrich, S., Sträuber, H., Kleinstreuer, S., Harms, H., Centler, F.** (2018):
Intermittent fasting for microbes: how discontinuous feeding increases functional stability in anaerobic digestion
Biotechnol. Biofuels **11** , art. 274
83. **Bonk, F., Popp, D., Weinrich, S., Sträuber, H., Kleinstreuer, S., Harms, H., Centler, F.** (2018):
Ammonia inhibition of anaerobic volatile fatty acid degrading microbial communities
Front. Microbiol. **9** , art. 2921

84. Bonner, R., Aylward, L., **Kappelmeyer, U.**, Sheridan, C. (2018): Combining tracer studies and biomimetic design principles to investigate clogging in constructed wetlands
Water SA **44** (4), 764 - 770
85. **Boog, J., Nivala, J., Aubron, T., Mothes, S., van Afferden, M., Müller, R.A.** (2018): Resilience of carbon and nitrogen removal due to aeration interruption in aerated treatment wetlands
Sci. Total Environ. **621** , 960 - 969
86. Bopp, S.K., Barouki, R., **Brack, W.**, Dalla Costa, S., Dorne, J.-L.C.M., Drakvik, P.E., Faust, M., Karjalainen, T.K., Kephalopoulos, S., van Klaveren, J., Kolossa-Gehring, M., Kortenkamp, A., Lebret, E., Lettieri, T., Nørager, S., Rüegg, J., Tarazona, J.V., Trier, X., van de Water, B., van Gils, J., Bergman, Å. (2018): Current EU research activities on combined exposure to multiple chemicals
Environ. Int. **120** , 544 - 562
87. Borne, O., **Korte, K.**, Perez, Y., Petit, M., **Purkus, A.** (2018): Barriers to entry in frequency-regulation services markets: Review of the status quo and options for improvements
Renew. Sust. Energ. Rev. **81** , 605 - 614
88. **Bose, A., Duerr, T., Klenke, R.A., Henle, K.** (2018): Collision sensitive niche profile of the worst affected bird-groups at wind turbine structures in the Federal State of Brandenburg, Germany
Sci. Rep. **8** , art. 3777
89. **Bouffaud, M.-L.**, Renoud, S., Dubost, A., Moënne-Loccoz, Y., Muller, D. (2018): 1-Aminocyclopropane-1-carboxylate deaminase producers associated to maize and other *Poaceae* species
Microbiome **6** , art. 114
90. **Bovet, J.** (2018): Monatliche Rubrik "Natur und Recht" : der Schwerpunkt "Windenergie"
Nat. Landschaft **93** (11), 529 - 531
91. **Bovet, J., Reese, M., Köck, W.** (2018): Taming expansive land use dynamics – Sustainable land use regulation and urban sprawl in a comparative perspective
Land Use Pol. **77** , 837 - 845
92. Bowatte, G., Markeych, I., Standl, M., Dharmage, S.C., Koletzko, S., **Lehmann, I.**, Bauer, C.-P., Schikowski, T., von Berg, A., Berdel, D., Heinrich, J. (2018): Hygienic behavior and allergic sensitization in German adolescents
Allergy **73** (S105), 334 - 334

93. Bowatte, G., Markevych, I., Standl, M., Dharmage, S.C., Koletzko, S., **Lehmann, I.**, Bauer, C.-P., Schikowski, T., von Berg, A., Berdel, D., Heinrich, J. (2018): Hygienic behavior and allergic sensitization in German adolescents
Allergy **73** (9), 1915 - 1918
94. **Brack, W., Escher, B.I., Müller, E., Schmitt-Jansen, M., Schulze, T.**, Slobodnik, J., Hollert, H. (2018): Towards a holistic and solution-oriented monitoring of chemical status of European water bodies: how to support the EU strategy for a non-toxic environment?
Environ. Sci. Eur. **30** , art. 33
95. **Bräuer, K.**, Kämpf, H., Niedermann, S., **Strauch, G.** (2018): Monitoring of helium and carbon isotopes in the western Eger Rift area (Czech Republic): Relationships with the 2014 seismic activity and indications for recent (2000–2016) magmatic unrest
Chem. Geol. **482** , 131 - 145
96. **Brauns, M.**, Boëchat, I.G., de Carvalho, A.P.C., **Graeber, D.**, Gücker, B., Mehner, T., von Schiller, D. (2018): Consumer-resource stoichiometry as a predictor of trophic discrimination ($\Delta^{13}\text{C}$, $\Delta^{15}\text{N}$) in aquatic invertebrates
Freshw. Biol. **63** (10), 1240 - 1249
97. Breitenbach, R., Silbernagl, D., **Toepel, J.**, Sturm, H., Broughton, W.J., Sasaki, G.L., Gorbushina, A.A. (2018): Corrosive extracellular polysaccharides of the rock-inhabiting model fungus *Knufia petricola*
Extremophiles **22** (2), 165 - 175
98. **Breulmann, M., Kuka, K., van Afferden, M., Buscot, F., Fühner, C., Müller, R., Schulz, E.** (2018): Labile water soluble components govern the short-term microbial decay of hydrochar from sewage sludge
Arch. Agron. Soil Sci. **64** (6), 873 - 880
99. **Breulmann, M., Schulz, E., van Afferden, M., Müller, R.A., Fühner, C.** (2018): Hydrochars derived from sewage sludge: effects of pre-treatment with water on char properties, phytotoxicity and chemical structure
Arch. Agron. Soil Sci. **64** (6), 860 - 872
100. Bridgewater, P., **Schmeller, D.S.** (2018): IPBES-6: the best plenary yet?
Biodivers. Conserv. **27** (11), 2777 - 2782

101. Broekgaarden, C., Pelgrom, K.T.B., Bucher, J., van Dam, N.M., Grosser, K., Pieterse, C.M.J., van Kaauwen, M., Steenhuis, G., Voorrips, R.E., de Vos, M., Vosman, B., **Worrich, A.**, van Wees, S.C.M. (2018): Combining QTL mapping with transcriptome and metabolome profiling reveals a possible role for ABA signaling in resistance against the cabbage whitefly in cabbage *PLOS One* **13** (11), e0206103
102. Bruce, L.C., **Frassl, M.A.**, Arhonditsis, G.B., Gal, G., Hamilton, D.P., Hanson, P.C., Hetherington, A.L., Melack, J.M., Read, J.S., **Rinke, K.**, Rigos, A., Trolle, D., Winslow, L., Adrian, R., Ayala, A.I., **Bocaniov, S.A.**, **Boehrer, B.**, Boon, C., Brookes, J.D., Bueche, T., Busch, B.D., Copetti, D., Cortés, A., de Etyo, E., Elliott, J.A., Gallina, N., Gilboa, Y., Guyennou, N., Huang, L., Kerimoglu, O., Lenters, J.D., MacIntyre, S., Makler-Pick, V., McBride, C.G., Moreira, S., Ozkundakci, D., Pilotti, M., Rueda, F.J., Rusak, J.A., Samal, N.R., Schmid, M., Shatwell, T., Snorthheim, C., Soulignac, F., Valerio, G., van der Linden, L., Vetter, M., Vinçon-Leite, B., Wang, J., **Weber, M.**, Wickramaratne, C., Woolway, R.I., Yao, H., Hipsey, M.R. (2018): A multi-lake comparative analysis of the General Lake Model (GLM): Stress-testing across a global observatory network *Environ. Modell. Softw.* **102**, 274 - 291
103. Bruelheide, H., Dengler, J., Purschke, O., Lenoir, J., Jiménez-Alfaro, B., Hennekens, S.M., Botta-Dukát, Z., Chytrý, M., Field, R., Jansen, F., Kattge, J., Pillar, V.D., Schrodt, F., Mahecha, M.D., Peet, R.K., Sandel, B., van Bodegom, P., Altman, J., Alvarez-Dávila, E., Khan, M.A.S.A., Attorre, F., Aubin, I., Baraloto, C., Barroso, J.G., Bauters, M., Bergmeier, E., Biurrun, I., Bjorkman, A.D., Blonder, B., Čarní, A., Cayuela, L., Černý, T., Cornelissen, J.H.C., **Craven, D.**, Dainese, M., Derroire, G., De Sanctis, M., Díaz, S., Doležal, J., Farfan-Rios, W., Feldpausch, T.R., Fenton, N.J., Garnier, E., Guerin, G.R., Gutiérrez, A.G., Haider, S., Hattab, T., Henry, G., Hérault, B., Higuchi, P., Hözel, N., Homeier, J., Jentsch, A., Jürgens, N., Kącki, Z., Karger, D.N., Kessler, M., Kleyer, M., Knollová, I., Korolyuk, A.Y., **Kühn, I.**, Laughlin, D.C., Lens, F., Loos, J., Louault, F., Lyubenova, M.I., Malhi, Y., Marcenò, C., Mencuccini, M., Müller, J.V., Munzinger, J., Myers-Smith, I.H., Neill, D.A., Niinemets, Ü., Orwin, K.H., Ozinga, W.A., Penuelas, J., Pérez-Haase, A., Petřík, P., Phillips, O.L., Pärtel, M., Reich, P.B., Römermann, C., Rodrigues, A.V., Sabatini, F.M., Sardans, J., Schmidt, M., Seidler, G., Silva Espejo, J.E., Silveira, M., Smyth, A., Sporbert, M., Svenning, J.-C., Tang, Z., Thomas, R., Tsiripidis, I., Vassilev, K., Violle, C., **Virtanen, R.**, Weiher, E., Welk, E., Wesche, K., Winter, M., Wirth, C., Jandt, U. (2018): Global trait–environment relationships of plant communities *Nat. Ecol. Evol.* **2**, 1906 - 1917

104. **Buchmann, T.**, Schumacher, J., Ebeling, A., Eisenhauer, N., Fischer, M., Gleixner, G., Hacker, N., Lange, M., Oelmann, Y., Schulze, E.-D., Weigelt, A., Weisser, W.W., Wilcke, W., **Roscher, C.** (2018): Connecting experimental biodiversity research to real-world grasslands
Perspect. Plant Ecol. Evol. Syst. **33**, 78 - 88
105. **Buchmann, T.**, Schumacher, J., **Roscher, C.** (2018): Intraspecific trait variation in three common grass species reveals fine-scale species adjustment to local environmental conditions
J. Plant Ecol. **11** (6), 887 - 898
106. Buczko, U., van Laak, M., Eichler-Löbermann, B., Gans, W., **Merbach, I.**, Panten, K., Peiter, E., **Reitz, T.**, Spiegel, H., von Tucher, S. (2018): Re-evaluation of the yield response to phosphorus fertilization based on meta-analyses of long-term field experiments
Ambio **47** (Suppl. 1), 50 - 61
107. Bühlmeier, J., Harris, C., Koletzko, S., **Lehmann, I.**, Bauer, C.-P., Schikowski, T., von Berg, A., Berdel, D., Heinrich, J., Hebebrand, J., Föcker, M., Standl, M., Libuda, L. (2018): Dietary acid load and mental health outcomes in children and adolescents: Results from the GINIplus and LISA birth cohort studies
Nutrients **10** (5), art. 582
108. Bulitta, B., Zuschratter, W., Bernal, I., Bruder, D., Klawonn, F., **von Bergen, M.**, Garritsen, H.S.P., Jänsch, L. (2018): Proteomic definition of human mucosal-associated invariant T cells determines their unique molecular effector phenotype
Eur. J. Immunol. **48** (8), 1336 - 1349
109. Bull, J.W., Brauneder, K., **Darbi, M.**, van Teeffelen, A.J.A., Quétier, F., Brooks, S.E., Dunnett, S., Strange, N. (2018): Data transparency regarding the implementation of European ‘no net loss’ biodiversity policies
Biol. Conserv. **218**, 64 - 72
110. **Bumberger, J.**, **Mai, J.**, **Schmidt, F.**, **Lünenschloß, P.**, Wagner, N., Töpfer, H. (2018): Spatial retrieval of broadband dielectric spectra
Sensors **18** (9), art. 2780
111. Bundschuh, M., Filser, J., Luderwald, S., McKee, M.S., Metreveli, G., Schaumann, G.E., Schulz, R., **Wagner, S.** (2018): Nanoparticles in the environment: where do we come from, where do we go to?
Environ. Sci. Eur. **30**, art. 6

112. Busche, T., Hillion, M., Loi, V.V., Berg, D., Walther, B., Semmler, T., Strommenger, B., Witte, W., Cuny, C., Mellmann, A., Holmes, M.A., Kalinowski, J., **Adrian, L.**, Bernhardt, J., Antelmann, H. (2018): Comparative secretome analyses of human and zoonotic *Staphylococcus aureus* isolates CC8, CC22, and CC398
Mol. Cell. Proteomics **17** (12), 2412 - 2433
113. Byrne, J.M., **Schmidt, M.**, Gauger, T., Bryce, C., Kappler, A. (2018): Imaging organic-mineral aggregates formed by Fe(II)-oxidizing bacteria using helium ion microscopy
Environ. Sci. Technol. Lett. **5** (4), 209 - 2013
114. Cameron, E.K., Martins, I.S., Lavelle, P., Mathieu, J., Tedersoo, L., Gottschall, F., Guerra, C.A., Hines, J., Patoine, G., Siebert, J., Winter, M., Cesarz, S., Delgado-Baquerizo, M., Ferlian, O., Fierer, N., Kreft, H., Lovejoy, T.E., Montanarella, L., Orgiazzi, A., Pereira, H.M., Phillips, H.R.P., **Settele, J.**, Wall, D.H., Eisenhauer, N. (2018): Global gaps in soil biodiversity data
Nat. Ecol. Evol. **2** (6), 1042 - 1043
115. Campoy, C., Cerdó, T., Ruiz, A., Jauregui, R., **von Bergen, M.**, Suarez, A. (2018): Maternal pre-pregnancy body mass index imprints a gut microbial community composition with a specific functionality
Ann. Nutr. Metab. **73** (Suppl. 2), 55
116. Canzler, S., Stadler, P.F., **Schor, J.** (2018): The fungal snoRNAome
RNA **24** (3), 342 - 360
117. Cao, H., Klein, A.-M., Zhu, C.-D., Staab, M., **Durka, W.**, Fischer, M., Fornoff, F. (2018): Intra- and interspecific tree diversity promotes multitrophic plant–Hemiptera–ant interactions in a forest diversity experiment
Basic Appl. Ecol. **29** , 89 - 97
118. Capinha, C., Essl, F., Seebens, H., Pereira, H.M., **Kühn, I.** (2018): Models of alien species richness show moderate predictive accuracy and poor transferability
Neobiota **38** , 77 - 96
119. Carmen, E., Watt, A., Carvalho, L., Dick, J., Fazey, I., Garcia-Blanco, G., Grizzetti, B., **Hauck, J.**, Izakovicova, Z., Kopperoinen, L., Liquete, C., Odee, D., Steingröver, E., Young, J. (2018): Knowledge needs for the operationalisation of the concept of ecosystem services
Ecosystem Services **29** (Part C), 441 - 451

120. Carrara, A., Kolari, P., Op de Beeck, M., Arriga, N., Berveiller, D., Dengel, S., Ibrom, A., Merbold, L., **Rebmann, C.**, Sabbatini, S., Serrano-Ortíz, P., Biraud, S.C. (2018): Radiation measurements at ICOS ecosystem stations
Int. Agrophys. **32** (4), 589 - 605
121. Carusi, A., Davies, M.R., De Grandis, G., **Escher, B.I.**, Hodges, G., Leung, K.M.Y., Whelan, M., Willett, C., Ankley, G.T. (2018): Harvesting the promise of AOPs: An assessment and recommendations
Sci. Total Environ. **628–629** , 1542 - 1556
122. Castillo Cabrera, F., **Haase, D.** (2018): Guatemala City: A socio-ecological profile
Cities **72** (Part B), 379 - 390
123. **Centgraf, S.** (2018): Supporting civic engagement in German energy cooperatives – Transdisciplinary research based on the reflection of individual needs
Energy Research & Social Science **44** , 112 - 121
124. Cerdó, T., Ruiz, A., Acuña, I., Jáuregui, R., **Jehmlich, N.**, **Haange, S.-B.**, **von Bergen, M.**, Suárez, A., Campoy, C. (2018): Gut microbial functional maturation and succession during human early life
Environ. Microbiol. **20** (6), 2160 - 2177
125. Chanthorn, W., **Wiegand, T.**, **Getzin, S.**, Brockelman, W.Y., Nathalang, A. (2018): Spatial patterns of local species richness reveal importance of frugivores for tropical forest diversity
J. Ecol. **106** (3), 925 - 935
126. Chase, J.M., McGill, B.J., McGlinn, D.J., May, F., Blowes, S.A., Xiao, X., **Knight, T.M.**, Purschke, O., Gotelli, N.J., Adler, F. (2018): Embracing scale-dependence to achieve a deeper understanding of biodiversity and its change across communities
Ecol. Lett. **21** (11), 1737 - 1751
127. Chau, A.T.T., Lee, M., **Adrian, L.**, Manefield, M.J. (2018): Syntrophic partners enhance growth and respiratory dehalogenation of hexachlorobenzene by *Dehalococcoides mccartyi* strain CBDB1
Front. Microbiol. **9** , art. 1927

128. Chevallier, M.L., **Cooper, M.**, **Kümmel, S.**, Barbance, A., Le Paslier, D., **Richnow, H.H.**, Saaidi, P.-L., **Adrian, L.** (2018):
Distinct carbon isotope fractionation signatures during biotic and abiotic reductive transformation of chlordecone
Environ. Sci. Technol. **52** (6), 3615 - 3624
129. Chungu, D., **Stadler, J.**, Brandl, R. (2018):
Converting forests to agriculture decreases body size of Carabid assemblages in Zambia
Afr. J. Ecol. **56** (2), 216 - 224
130. Chupani, L., Niksirat, H., **Lünsmann, V.**, **Haange, S.-B.**, **von Bergen, M.**, **Jehmlich, N.**, Zuskova, E. (2018):
Insight into the modulation of intestinal proteome of juvenile common carp (*Cyprinus carpio* L.) after dietary exposure to ZnO nanoparticles
Sci. Total Environ. **613-614** , 62 - 71
131. Clagnan, E., Thornton, S.F., Rolfe, S.A., Tuohy, P., Peyton, D., **Wells, N.S.**, Fenton, O. (2018):
Influence of artificial drainage system design on the nitrogen attenuation potential of gley soils: Evidence from hydrochemical and isotope studies under field-scale conditions
J. Environ. Manage. **206** , 1028 - 1038
132. Clagnan, E., Thornton, S.F., Rolfe, S.A., **Wells, N.S.**, **Knoeller, K.**, Fenton, O. (2018):
Investigating “net” provenance, N source, transformation and fate within hydrologically isolated grassland plots
Agric. Water Manage. **203** , 1 - 8
133. **Clark, A.T.**, Lehman, C., Tilman, D. (2018):
Identifying mechanisms that structure ecological communities by snapping model parameters to empirically observed tradeoffs
Ecol. Lett. **21** (4), 494 - 505
134. **Clark, A.T.**, Neuhauser, C. (2018):
Harnessing uncertainty to approximate mechanistic models of interspecific interactions
Theor. Popul. Biol. **123** , 35 - 44
135. Clauzel, C., Jeliazkov, A., **Mimet, A.** (2018):
Coupling a landscape-based approach and graph theory to maximize multispecific connectivity in bird communities
Landsc. Urban Plan. **179** , 1 - 16
136. Coles, N.A., Wang, Y., **Volk, M.**, Wu, J. (2018):
Ecosystem services and multifunctional landscapes: Balancing the benefits of integrated ES-based water resources, agricultural and forestry production systems
Ecohydrol. Hydrobiol. **18** (3), 262 - 268

137. Concha, E., **Heipieper, H.J.**, Wick, L.Y., Ciudad, G.A., Navia, R. (2018): Effects of limonene, *n*-decane and *n*-decanol on growth and membrane fatty acid composition of the microalga *Botryococcus braunii*
AMB Express **8** (1), art. 189
138. Contreras, Z.A., Chen, Z., Roumeliotaki, T., Annesi-Maesano, I., Baïz, N., von Berg, A., Bergström, A., Crozier, S., Duijts, L., Ekström, S., Eller, E., Fantini, M.P., Kjaer, H.F., Forastiere, F., Gerhard, B., Gori, D., Harskamp-van Ginkel, M.W., Heinrich, J., Iñiguez, C., Inskip, H., Keil, T., Kogevinas, M., Lau, S., **Lehmann, I.**, Maier, D., van Meel, E.R., Mommers, M., Murcia, M., Porta, D., Smit, H.A., Standl, M., Stratakis, N., Sunyer, J., Thijss, C., Torrent, M., Vrijkotte, T.G.M., Wijga, A.H., Berhane, K., Gilliland, F., Chatzi, L. (2018): Does early onset asthma increase childhood obesity risk? A pooled analysis of 16 European cohorts
Eur. Resp. J. **52** (3), art. 1800504
139. Contreras, Z., Chen, Z., Roumeliotaki, T., Annesi-Maesano, I., Baiz, N., von Berg, A., Bergstrom, A., Bindslev-Jensen, C., Crozier, S., Duijts, L., Ekstrom, S., Eller, E., Fantini, M., Forastiere, F., Gerhard, B., Gori, D., Harskamp-van Ginkel, M., Heinrich, J., Iñiguez, C., Inskip, H., Keil, T., Kogevinas, M., Lau, S., **Lehmann, I.**, Maier, D., van Meel, E., Mommers, M., Murcia, M., Porta, D., Smit, H., Standl, M., Stratakis, N., Sunyer, J., Thijss, C., Torrent, M., Vrijkotte, T., Wijga, A., Berhane, K., Gilliland, F., Chatzi, L. (2018): Early childhood asthma and the risk of new onset obesity: An individual participant meta-analysis of 16 European birth cohorts
Am. J. Respir. Crit. Care Med. **197**, A4469
140. Crandall, R.M., **Knight, T.M.** (2018): Role of multiple invasion mechanisms and their interaction in regulating the population dynamics of an exotic tree
J. Appl. Ecol. **52** (2), 885 - 894
141. **Craven, D.**, Eisenhauer, N., Pearse, W.D., Hautier, Y., Isbell, F., **Roscher, C.**, Bahn, M., Beierkuhnlein, C., Bönisch, G., Buchmann, N., Byun, C., Catford, J.A., Cerabolini, B.E.L., Cornelissen, J.H.C., Craine, J.M., De Luca, E., Ebeling, A., Griffin, J.N., Hector, A., Hines, J., Jentsch, A., Kattge, J., Kreyling, J., Lanta, V., Lemoine, N., Meyer, S.T., Minden, V., Onipchenko, V., Wayne Polley, H., Reich, P.B., van Ruijven, J., Schamp, B., Smith, M.D., Soudzilovskaia, N.A., Tilman, D., Weigelt, A., Wilsey, B., Manning, P. (2018): Multiple facets of biodiversity drive the diversity–stability relationship
Nat. Ecol. Evol. **2**, 1579 - 1587

142. **Craven, D.**, Hall, J.S., Berlyn, G.P., Ashton, M.S., van Breugel, M. (2018): Environmental filtering limits functional diversity during succession in a seasonally wet tropical secondary forest
J. Veg. Sci. **29** (3), 511 - 520
143. **Cuntz, M.**, Haverd, V. (2018): Physically accurate soil freeze-thaw processes in a global land surface scheme
J. Adv. Model. Earth Syst. **10** (1), 54 - 77
144. **Dantas de Paula, M., Groeneveld, J., Fischer, R., Taubert, F., Martins, V.F., Huth, A.** (2018): Defaunation impacts on seed survival and its effect on the biomass of future tropical forests
Oikos **127** (10), 1526 - 1538
145. **David, C., Schmid, A., Adrian, L., Wilde, A., Bühler, K.** (2018): Production of 1,2-propanediol in photoautotrophic *Synechocystis* is linked to glycogen turn-over
Biotechnol. Bioeng. **115** (2), 300 - 311
146. **David, M.** (2018): The role of organized publics in articulating the exnovation of fossil-fuel technologies for intra- and intergenerational energy justice in energy transitions
Appl. Energy **228** , 339 - 350
147. **David, M.**, Schönborn, S. (2018): Bottom-up energy transition narratives: linking the global with the local? A comparison of three German renewable co-ops
Sustainability **10** (4), art. 924
148. Dávila-Jiménez, M.M., Elizalde-González, M.P., **Guerrero-Morales, M.A., Mattusch, J.** (2018): Preparation, characterization, and application of TiO₂/Carbon composite: Adsorption, desorption and photocatalysis of Gd-DOTA
Process Saf. Environ. Protect. **120** , 195 - 205
149. Degenkolb, L., Metreveli, G., Philippe, A., Brandt, A., Leopold, K., Zehlike, L., **Vogel, H.-J.**, Schaumann, G.E., Baumann, T., Kaupenjohann, M., Lang, F., **Kumahor, S.**, Klitzke, S. (2018): Retention and remobilization mechanisms of environmentally aged silver nanoparticles in an artificial riverbank filtration system
Sci. Total Environ. **645** , 192 - 204

150. Dehaghi, I.M., Soffianian, A., Hemami, M.-R., Pourmanafi, S., Salmanmahiny, A., **Wu, G.-M.** (2018):
Exploring structural and functional corridors for wild sheep (*Ovis orientalis*) in a semi-arid area
J. Arid. Environ. **156**, 27 - 33
151. Delegn, Y.T., **Purahong, W.**, Sandén, H., Yitaferu, B., Godbold, D.L., **Wubet, T.** (2018):
Transition of Ethiopian highland forests to agriculture-dominated landscapes shifts the soil microbial community composition
BMC Ecology **18**, art. 58
152. Delgado-Vega, A.M., Martínez-Bueno, M., Oparina, N.Y., **López Herráez, D.**, Kristjansdottir, H., Steinsson, K., Kozyrev, S.V., Alarcón-Riquelme, M.E. (2018):
Whole exome sequencing of patients from multicase families with systemic lupus erythematosus identifies multiple rare variants
Sci. Rep. **8**, art. 8775
153. Delibes-Mateos, M., Castro, F., Piorno, V., Ramírez, E., Blanco-Aguiar, J.A., Aparicio, F., Mínguez, L.E., **Ferreira, C.C.**, Rouco, C., Ríos-Saldaña, C.A., Recuerda, P., Villafuerte, R. (2018):
First assessment of the potential introduction by hunters of eastern cottontail rabbits (*Sylvilagus floridanus*) in Spain
Wildl. Res. **45** (7), 571 - 577
154. Dem, E.S., Rodríguez-Labajos, B., **Wiemers, M.**, Ott, J., Hirneisen, N., Bustamante, J.V., Bustamante, M., **Settele, J.** (2018):
Understanding the relationship between volunteers' motivations and learning outcomes of Citizen Science in rice ecosystems in the Northern Philippines
Paddy Water Environ. **16** (4), 725 - 735
155. Demirel, M.C., **Mai, J.**, Mendiguren, G., Koch, J., **Samaniego, L.**, Stisen, S. (2018):
Combining satellite data and appropriate objective functions for improved spatial pattern performance of a distributed hydrologic model
Hydrol. Earth Syst. Sci. **22** (2), 1299 - 1315
156. Deobald, D., **Adrian, L.**, Schöne, C., Rother, M., Layer, G. (2018):
Identification of a unique Radical SAM methyltransferase required for the sp³-C-methylation of an arginine residue of methyl-coenzyme M reductase
Sci. Rep. **8**, art. 7404

157. Deutsch, E.W., Perez-Riverol, Y., Chalkley, R.J., Wilhelm, M., Tate, S., Sachsenberg, T., Walzer, M., Käll, L., Delanghe, B., Böcker, S., Schymanski, E.L., Wilmes, P., Dorfer, V., Kuster, B., Volders, P.-J., **Jehmlich, N.**, Vissers, J.P.C., Wolan, D.W., Wang, A.Y., Mendoza, L., Shofstahl, J., Dowsey, A.W., Griss, J., Salek, R.M., Neumann, S., Binz, P.-A., Lam, H., Vizcaíno, J.A., Bandeira, N., Röst, H. (2018): Expanding the use of spectral libraries in proteomics
J. Proteome Res. **17** (12), 4051 - 4060
158. Deutsch, M., Reeh, T., **Karthe, D.** (2018): Challenges for transboundary river management in Eastern Europe – three case studies
ERDE **149** (2-3), 64 - 75
159. Deveau, A., Bonito, G., Uehling, J., Paoletti, M., Becker, M., Bindschedler, S., Hacquard, S., Hervé, V., Labbé, J., Lastovetsky, O.A., Mieszkin, S., Millet, L.J., Vajna, B., Junier, P., Bonfante, P., Krom, B.P., Olsson, S., van Elsas, J.D., **Wick, L.Y.** (2018): Bacterial–fungal interactions: ecology, mechanisms and challenges
FEMS Microbiol. Rev. **42** (3), 335 - 352
160. Diamantini, E., **Lutz, S.**, Mallucci, S., Majone, B., **Merz, R.**, Bellin, A. (2018): Driver detection of water quality trends in three large European river basins
Sci. Total Environ. **612** , 49 - 62
161. Diamond, J., **Altenburger, R.**, Coors, A., Dyer, S.D., Focazio, M., Kidd, K., Koelmans, A.A., Leung, K.M.Y., Servos, M.R., Snape, J., Tolls, J., Zhang, X. (2018): Use of prospective and retrospective risk assessment methods that simplify chemical mixtures associated with treated domestic wastewater discharges
Environ. Toxicol. Chem. **37** (3), 690 - 702
162. Díaz, S., Pascual, U., Stenseke, M., Martín-López, B., Watson, R.T., Molnár, Z., Hill, R., Chan, K.M.A., Baste, I.A., Brauman, K.A., Polasky, S., Church, A., Lonsdale, M., Larigauderie, A., Leadley, P.W., Van Oudenhoven, A.P.E., van der Plaat, F., **Schröter, M.**, Lavorel, S., Aumeeruddy-Thomas, Y., Bukvareva, E., Davies, K., Demissew, S., Erpul, G., Failler, P., Guerra, C.A., Hewitt, C.L., Keune, H., Lindley, S., Shirayama, Y. (2018): Assessing nature’s contributions to people : recognizing culture, and diverse sources of knowledge, can improve assessments
Science **359** (6373), 270 - 272

163. Dick, J., Turkelboom, F., Woods, H., Iniesta-Arandia, I., Primmer, E., Saarela, S.-R., Bezák, P., Mederly, P., Leone, M., Verheyden, W., Kelemen, E., **Hauck, J.**, Andrews, S., Antunes, P., Aszalós, R., Baró, F., Barton, D.N., Berry, P., Bugter, R., Carvalho, L., Czúcz, B., Dunford, R., Garcia Blanco, G., Geamana, N., Giuca, R., Grizzetti, B., Izakovicova, Z., Kertész, M., Kopperoinen, L., Langemeyer, J., Lapola, D.M., Liquete, C., Luque, S., Martínez Pastur, G., Martin-Lopez, B., Mukhopadhyay, R., Niemela, J., Odee, D., Peri, P.L., Pinho, P., Patrício-Roberto, G.B., Preda, E., **Priess, J.**, Röckmann, C., Santos, R., Silaghi, D., Smith, R., Vadineanu, A., van der Wal, J.T., Arany, I., Badea, O., Bela, G., Boros, E., Bucur, M., Blumentrath, S., Calvache, M., Carmen, E., Clemente, P., Fernandes, J., Ferraz, D., Fongar, C., García-Llorente, M., Gómez-Baggethun, E., Gundersen, V., Haavardsholm, O., Kalóczkai, A., Khalalwe, T., Kiss, G., Köhler, B., Lazányi, O., Lellei-Kovács, E., Lichungu, R., Lindhjem, H., Magare, C., Mustajoki, J., Ndege, C., Nowell, M., Nuss Girona, S., Ochieng, J., Often, A., Palomo, I., Pataki, G., Reinvang, R., Rusch, G., Saarikoski, H., Smith, A., Soy Massoni, E., Stange, E., Vågnes Traaholt, N., Vári, A., Verweij, P., Vikström, S., Yli-Pelkonen, V., Zulian, G. (2018): Stakeholders' perspectives on the operationalisation of the ecosystem service concept: Results from 27 case studies
Ecosystem Services **29** (Part C), 552 - 565
164. **Dilling, O.**, Markus, T. (2018):
The transnationalisation of environmental law
J. Environ. Law **30** (2), 179 - 206
165. **Ding, C.**, Alvarez-Cohen, L., He, J. (2018):
Growth of *Dehalococcoides mccartyi* species in an autotrophic consortium producing limited acetate
Biodegradation **29** (5), 487 - 498
166. **Ding, C., Enyi, F.O., Adrian, L.** (2018):
Anaerobic ammonium oxidation (anammox) with planktonic cells in a redox-stable semicontinuous stirred-tank reactor
Environ. Sci. Technol. **52** (10), 5671 - 5681
167. **Dislich, C.**, Hettig, E., Salecker, J., Heinonen, J., Lay, J., Meyer, K.M., Wiegand, K., Tarigan, S. (2018):
Land-use change in oil palm dominated tropical landscapes—An agent-based model to explore ecological and socio-economic trade-offs
PLOS One **13** (1), e0190506

168. Dissanayake, A.J., **Purahong, W.**, **Wubet, T.**, Hyde, K.D., Zhang, W., Xu, H., Zhang, G., Fu, C., Liu, M., Xing, Q., Li, X. (2018):
Direct comparison of culture-dependent and culture-independent molecular approaches reveal the diversity of fungal endophytic communities in stems of grapevine (*Vitis vinifera*)
Fungal Divers. **90** (1), 85 - 107
169. Djukic, I., Kepfer-Rojas, S., Schmidt, I.K., Larsen, K.S., Beier, C., Berg, B., Verheyen, K., Caliman, A., Paquette, A., Gutierrez-Giron, A., Humber, A., Valdecantos, A., Petraglia, A., Alexander, H., Augustaitis, A., Saillard, A., Fernandez, A.C.R., Sousa, A.I., Lillebo, A.I., Gripp, A.d.R., Francez, A.-J., Fischer, A., Bohner, A., Malyshev, A., Andric, A., Smith, A., Stanisci, A., Seres, A., **Schmidt, A.**, Avila, A., Probst, A., Ouin, A., Khuroo, A.A., Verstraeten, A., Palabral-Aguilera, A.N., Stefanski, A., Gaxiola, A., Muys, B., Bosman, B., Ahrends, B., Parker, B., Sattler, B., Yang, B., Jurani, B., Erschbamer, B., Ortiz, C.E.R., Christiansen, C.T., Adair, E.C., Meredieu, C., Mony, C., Nock, C.A., Chen, C.-L., Wang, C.-P., Baum, C., Rixen, C., Delire, C., Piscart, C., Andrews, C., **Rebmann, C.**, Branquinho, C., Polyanskaya, D., Delgado, D.F., Wundram, D., Radeideh, D., Ordonez-Regil, E., Crawford, E., Preda, E., Tropina, E., Groner, E., Lucot, E., Hornung, E., Gacia, E., Levesque, E., Benedito, E., Davydov, E.A., Ampoorter, E., Bolzan, F.P., Varela, F., Kristoefel, F., Maestre, F.T., Maunoury-Danger, F., Hofhansl, F., Kitz, F., Sutter, F., Cuesta, F., Lobo, F.d.A., Souza, F.L.d., Berninger, F., Zehetner, F., Wohlfahrt, G., Vourlitis, G., Carreno-Rocabado, G., Arena, G., Pinha, G.D., Gonzalez, G., Canut, G., Lee, H., Verbeeck, H., **Auge, H.**, Pauli, H., Nacro, H.B., Bahamonde, H.A., Feldhaar, H., Jaeger, H., Serrano, H.C., Verheyden, H., Bruelheide, H., Meesenburg, H., Jungkunst, H., Jactel, H., Shibata, H., Kurokawa, H., Rosas, H.L., Villalobos, H.L.R., Yesilonis, I., Melece, I., Halder, I.V., Quiros, I.G., Makelele, I., Senou, I., Fekete, I., Mihal, I., Ostonen, I., Borovska, J., Roales, J., Shoqeir, J., Lata, J.-C., Theurillat, J.-P., Probst, J.-L., Zimmerman, J., Vijayanathan, J., Tang, J., Thompson, J., Dolezal, J., Sanchez-Cabeza, J.-A., Merlet, J., Henschel, J., Neirynck, J., Knops, J., Loehr, J., Oppen, J.v., Porlaksdottir, J.S., Loeffler, J., Cardoso-Mohedano, J.-G., Benito-Alonso, J.-L., Torezan, J.M., Morina, J.C., Jimenez, J.J., Quinde, J.D., Alatalo, J., Seeber, J., **Stadler, J.**, Kriiska, K., Coulibaly, K., Fukuzawa, K., Szlavec, K., Gerhatova, K., Lajtha, K., Kaeppler, K., Jennings, K.A., Tielboerger, K., Hoshizaki, K., Green, K., Ye, L., Pazianoto, L.H.R., Dienstbach, L., Williams, L., Yahdjian, L., Brigham, L.M., Brink, L.v.d., Rustad, L., Zhang, L., Morillas, L., Xiankai, L., Carneiro, L.S., Martino, L.D., Villar, L., Bader, M.Y., Morley, M., Lebouvier, M., Tomaselli, M., Sternberg, M., Schaub, M., Santos-Reis, M., Glushkova, M., Torres, M.G.A., Giroux, M.-A., Graaff, M.d., Pons, M.-N., Bauters, M., Mazon, M., **Frenzel, M.**, Wagner, M., Hamid, M., Lopes, M.L., Apple, M., Schaedler, M., Weih, M., Gualmini, M., Vadéboncoeur, M.A., Bierbaumer, M., Danger, M., Liddell, M., Mirtl, M., Ruzeck, M., Carbognani, M., Musciano, M.D., Matsushita, M., Zhiyanski, M., Puscas, M., Barna, M., Ataka, M., Jiangming, M., Alsafran, M., Carnol, M., Barsoum, N., Tokuchi, N., Eisenhauer, N., Lecomte, N., Filippova, N., Hoelzel, N., Ferlian, O., Romero, O., Pinto, O.B.J., Peri, P., Weber, P., Vittoz, P., Turtureanu, P.D., Fleischer, P., Macreadie, P., Haase, P., Reich, P., Petrik, P., Choler, P., Marmonier, P., Muriel, P., Ponette, Q., Guariento, R.D., Canessa, R., Kiese, R., Hewitt, R., Ronn, R., Adrian, R., Kanka, R., Weigel, R., Gatti, R.C., Martins, R.L., Georges, R., Meneses, R.I., Gavilan, R.G., Dasgupta, S., Wittlinger, S., Puijalon, S., Freda, S., Suzuki, S., Charles, S., Gogo, S., Drollinger, S., Mereu, S., Wipf, S., Trevathan-Tackett, S., Loefgren, S., Stoll, S., Trogisch, S., Hoeber, S., Seitz, S., Glatzel, S., Milton, S.J., Dousset, S., Mori, T., Sato, T., Ise, T., Hishi, T., Kenta, T., Nakaji, T., Michelan, T.S., Camboulive, T., Mozdzer, T.J., Scholten, T., Spiegelberger, T., Zechmeister, T., Kleinebecker, T., Hiura, T., Ursu, T.-M., Cella, U.M.d., Hamer, U., Klaus, V.H., Rego, V.M., Cecco, (2018):
Early stage litter decomposition across biomes
Sci. Total Environ. **628–629**, 1369 - 1394

170. Doelman, J.C., Stehfest, E., Tabeau, A., van Meijl, H., Lassaletta, L., Gernaat, D.E.H.J., **Hermans, K.**, Harmsen, M., Daioglou, V., Biemans, H., van der Sluis, S., van Vuuren, D.P. (2018):
Exploring SSP land-use dynamics using the IMAGE model: Regional and gridded scenarios of land-use change and land-based climate change mitigation
Glob. Environ. Change **48**, 119 - 135
171. **Dominik, C., Seppelt, R.**, Horgan, F.G., Settele, J., Václavík, T. (2018):
Landscape composition, configuration, and trophic interactions shape arthropod communities in rice agroecosystems
J. Appl. Ecol. **55** (5), 2461 - 2472
172. Dormann, C.F., Calabrese, J.M., Guillera-Arroita, G., Matechou, E., Bahn, V., Bartoń, K., Beale, C.M., Ciuti, S., Elith, J., **Gerstner, K.**, Guelat, J., Keil, P., Lahoz-Monfort, J.J., Pollock, L.J., Reineking, B., Roberts, D.R., Schröder, B., Thuiller, W., Warton, D.I., Wintle, B.A., Wood, S.N., Wüest, R.O., Hartig, F. (2018):
Model averaging in ecology: a review of Bayesian, information-theoretic, and tactical approaches for predictive inference
Ecol. Monogr. **88** (4), 485 - 504
173. **Drechsler, M., Surun, C.** (2018):
Land-use and species tipping points in a coupled ecological-economic model
Ecol. Complex. **36**, 86 - 91
174. **Droste, N., Bartkowski, B.** (2018):
Ecosystem service valuation for national accounting: a reply to Obst, Hein and Edens (2016)
Environ. Resour. Econ. **71** (1), 205 - 215
175. **Droste, N., Becker, C., Ring, I.**, Santos, R. (2018):
Decentralization effects in Ecological Fiscal Transfers - a Bayesian structural time series analysis for Portugal
Environ. Resour. Econ. **71** (4), 1027 - 1051
176. **Droste, N., D'Amato, D., Goddard, J.J.** (2018):
Where communities intermingle, diversity grows – The evolution of topics in ecosystem service research
PLOS One **13** (9), e0204749
177. **Droste, N., Ring, I., Santos, R., Kettunen, M.** (2018):
Ecological Fiscal Transfers in Europe – Evidence-based design options for a transnational scheme
Ecol. Econ. **147**, 373 - 382

178. Du, Y., Peng, W., Wang, S., Liu, X., **Chen, C.**, Liu, C., Wang, L. (2018): Modeling of water quality evolution and response with the hydrological regime changes in Poyang Lake
Environ. Earth Sci. **77** (7), art. 265
179. Dunford, R., Harrison, P., Smith, A., Dick, J., Barton, D.N., Martin-Lopez, B., Kelemen, E., Jacobs, S., Saarikoski, H., Turkelboom, F., Verheyden, W., **Hauck, J.**, Antunes, P., Aszalós, R., Badea, O., Baró, F., Berry, P., Carvalho, L., Conte, G., Czucz, B., Garcia Blanco, G., Howard, D., Giuca, R., Gomez-Baggethun, E., Grizetti, B., Izakovicova, Z., Kopperoinen, L., Langemeyer, J., Luque, S., Lapola, D.M., Martinez-Pastur, G., Mukhopadhyay, R., Roy, S.B., Niemelä, J., Norton, L., Ochieng, J., Odee, D., Palomo, I., Pinho, P., **Priess, J.**, Rusch, G., Saarela, S.-R., Santos, R., van der Wal, J.T., Vadineanu, A., Vári, A., Woods, H., Yli-Pelkonen, V. (2018): Integrating methods for ecosystem service assessment: Experiences from real world situations
Ecosystem Services **29** (Part C), 499 - 514
180. **Dunker, S.**, Boho, D., Wäldchen, J., Mäder, P. (2018): Combining high-throughput imaging flow cytometry and deep learning for efficient species and life-cycle stage identification of phytoplankton
BMC Ecology **18** , art. 51
181. **Dunker, S.**, Wilhelm, C. (2018): Cell wall structure of coccoid green algae as an important trade-off between biotic interference mechanisms and multidimensional cell growth
Front. Microbiol. **9** , art. 719
182. **Dupas, R.**, Tittel, J., Jordan, P., Musolff, A., Rode, M. (2018): Non-domestic phosphorus release in rivers during low-flow: Mechanisms and implications for sources identification
J. Hydrol. **560** , 141 - 149
183. **Eberlein, C.**, Baumgarten, T., Starke, S., Heipieper, H.J. (2018): Immediate response mechanisms of Gram-negative solvent-tolerant bacteria to cope with environmental stress: *cis-trans* isomerization of unsaturated fatty acids and outer membrane vesicle secretion
Appl. Microbiol. Biotechnol. **102** (6), 2583 - 2593
184. **Ebert, A.**, Hanneschlaeger, C., **Goss, K.-U.**, Pohl, P. (2018): Passive permeability of planar lipid bilayers to organic anions
Biophys. J. **115** (10), 1931 - 1941

185. **Egli, L.**, Meyer, C., Scherber, C., Kreft, H., Tscharntke, T. (2018):
Winners and losers of national and global efforts to reconcile agricultural intensification
and biodiversity conservation
Glob. Change Biol. **24** (5), 2212 - 2228
186. Eisenhauer, N., **Herrmann, S.**, Hines, J., **Buscot, F.**, Siebert, J., Thakur, M.P. (2018):
The dark side of animal phenology
Trends Ecol. Evol. **33** (12), 898 - 901
187. **Escher, B.I.**, Aït-Aïssa, S., Behnisch, P.A., **Brack, W.**, Brion, F., Brouwer, A.,
Buchinger, S., Crawford, S.E., Du Pasquier, D., Hamers, T., Hettwer, K., Hilscherová, K.,
Hollert, H., Kase, R., Kienle, C., Tindall, A.J., Tuerk, J., van der Oost, R., Vermeirssen,
E., Neale, P.A. (2018):
Effect-based trigger values for *in vitro* and *in vivo* bioassays performed on surface water
extracts supporting the environmental quality standards (EQS) of the European Water
Framework Directive
Sci. Total Environ. **628–629** , 748 - 765
188. **Escher, B.I.**, Neale, P.A., Villeneuve, D.L. (2018):
The advantages of linear concentration–response curves for in vitro bioassays with
environmental samples
Environ. Toxicol. Chem. **37** (9), 2273 - 2280
189. Essig, K., Kronbeck, N., Guimaraes, J.C., Lohs, C., Schlundt, A., Hoffmann, A.,
Behrens, G., Brenner, S., Kowalska, J., Lopez-Rodriguez, C., Jemielity, J.,
Holtmann, H., **Reiche, K.**, **Hackermüller, J.**, Sattler, M., Zavolan, M., Heissmeyer, V.
(2018):
Roquin targets mRNAs in a 3'-UTR-specific manner by different modes of regulation
Nat. Commun. **9** , art. 3810
190. Essl, F., Bacher, S., Genovesi, P., Hulme, P.E., Jeschke, J.M., Katsanevakis, S.,
Kowarik, I., **Kühn, I.**, Pyšek, P., Rabitsch, W., Schindler, S., van Kleunen, M., Vilà, M.,
Wilson, J.R.U., Richardson, D.M. (2018):
Which taxa are alien? Criteria, applications, and uncertainties
Bioscience **68** (7), 496 - 509
191. **Everaars, J.**, **Settele, J.**, **Dormann, C.F.** (2018):
Fragmentation of nest and foraging habitat affects time budgets of solitary bees, their
fitness and pollination services, depending on traits: Results from an individual-based
model
PLOS One **13** (2), e0188269

192. Falk, T., **Spangenberg, J.H.**, Siegmund-Schultze, M., Kobbe, S., Feike, T., Kuebler, D., **Settele, J.**, Vorlaufer, T. (2018): Identifying governance challenges in ecosystem services management – Conceptual considerations and comparison of global forest cases
Ecosystem Services **32** (Part B), 193 - 203
193. **Fedriani, J.M.**, Wiegand, T., Ayllón, D., Palomares, F., Suárez-Esteban, A., **Grimm, V.** (2018): Assisting seed dispersers to restore oldfields: An individual-based model of the interactions among badgers, foxes and Iberian pear trees
J. Appl. Ecol. **55** (2), 600 - 611
194. Felipe-Lucia, M.R., Soliveres, S., Penone, C., Manning, P., van der Plas, F., Boch, S., Prati, D., Ammer, C., Schall, P., Gossner, M.M., Bauhus, J., **Buscot, F.**, Blaser, S., Blüthgen, N., de Frutos, A., Ehbrecht, M., Frank, K., **Goldmann, K.**, Hänsel, F., Jung, K., Kahl, T., Nauss, T., Oelmann, Y., Pena, R., Polle, A., Renner, S., Schloter, M., Schöning, I., Schrumpf, M., Schulze, E.-D., Solly, E., Sorkau, E., Stempfhuber, B., Tschapka, M., Weisser, W.W., **Wubet, T.**, Fischer, M., Allan, E. (2018): Multiple forest attributes underpin the supply of multiple ecosystem services
Nat. Commun. **9** , art. 4839
195. Ferlian, O., Biere, A., Bonfante, P., **Buscot, F.**, Eisenhauer, N., **Fernandez, I.**, Hause, B., **Herrmann, S.**, Krajinski-Barth, F., Meier, I.C., Pozo, M.J., Rasman, S., Rillig, M.C., **Tarkka, M.T.**, van Dam, N.M., Wagg, C., Martinez-Medina, A. (2018): Growing research networks on mycorrhizae for mutual benefits
Trends Plant Sci. **23** (11), 975 - 984
196. Ferlian, O., Cesarz, S., **Craven, D.**, Hines, J., Barry, K.E., Bruelheide, H., **Buscot, F.**, Haider, S., Heklau, H., Herrmann, S., **Herrmann, S.**, Kühn, P., Pruschitzki, U., **Schädler, M.**, Wagg, C., Weigelt, A., **Wubet, T.**, Eisenhauer, N. (2018): Mycorrhiza in tree diversity–ecosystem function relationships: conceptual framework and experimental implementation
Ecosphere **9** (5), e02226
197. Fersch, B., Jagdhuber, T., **Schrön, M.**, Völksch, I., Jäger, M. (2018): Synergies for soil moisture retrieval across scales from airborne polarimetric SAR, cosmic ray neutron roving, and an in situ sensor network
Water Resour. Res. **54** (11), 9364 - 9383
198. **Fiedler, D.**, Maskow, T. (2018): A note of thanks from the guest editors to Professor Wolfgang Babel – An inspiring researcher and highly esteemed teacher
Eng. Life Sci. **18** (7), 412 - 413

199. Filippini, M., **Nijenhuis, I.**, Kümmel, S., Chiarini, V., Crosta, G., **Richnow, H.H.**, Gargini, A. (2018):
Multi-element compound specific stable isotope analysis of chlorinated aliphatic contaminants derived from chlorinated pitches
Sci. Total Environ. **640-641**, 153 - 162
200. Firacative, C., Gressler, A.E., **Schubert, K.**, Schulze, B., Müller, U., Brombacher, F., **von Bergen, M.**, Alber, G. (2018):
Identification of T helper (Th)1- and Th2-associated antigens of *Cryptococcus neoformans* in a murine model of pulmonary infection
Sci. Rep. **8**, art. 2681
201. Fischer, A., Spekkink, W., **Polzin, C.**, Díaz-Ayude, A., Brizi, A., Macsinga, I. (2018):
Social representations of governance for change towards sustainability: perspectives of sustainability advocates
Environ. Polit. **27** (4), 621 - 643
202. **Fischer, F.C.**, Abele, C., Droege, S.T.J., **Henneberger, L.**, König, M., Schlichting, R., Scholz, S., Escher, B.I. (2018):
Cellular uptake kinetics of neutral and charged chemicals in *in vitro* assays measured by fluorescence microscopy
Chem. Res. Toxicol. **31** (8), 646 - 657
203. **Fischer, F.C.**, Cirpka, O.A., **Goss, K.-U.**, **Henneberger, L.**, Escher, B.I. (2018):
Application of experimental polystyrene partition constants and diffusion coefficients to predict the sorption of neutral organic chemicals to multiwell plates in *in vivo* and *in vitro* bioassays
Environ. Sci. Technol. **52** (22), 13511 - 13522
204. Fischer, L.K., Honold, J., Botzat, A., Brinkmeyer, D., Cvejić, R., Delshammar, T., Elands, B., **Haase, D.**, Kabisch, N., Karle, S.J., Laforteza, R., Nastran, M., Nielsen, A.B., van der Jagt, A.P., Vierikko, K., Kowarik, I. (2018):
Recreational ecosystem services in European cities: Sociocultural and geographical contexts matter for park use
Ecosystem Services **31** (Part C), 455 - 467
205. **Fischer, R.**, Rödig, E., Huth, A. (2018):
Consequences of a reduced number of plant functional types for the simulation of forest productivity
Forests **9** (8), art. 460

206. Fisher, M.C., Ghosh, P., Shelton, J.M.G., Bates, K., Brookes, L., Wierzbicki, C., Rosa, G.M., Farrer, R.A., Aanensen, D.M., Alvarado-Rybak, M., Bataille, A., Berger, L., Böll, S., Bosch, J., Clare, F.C., Courtois, E.A., Crottini, A., Cunningham, A.A., Doherty-Bone, T.M., Gebresenbet, F., Gowers, K., Höglund, J., James, T.Y., Jenkinson, T.S., Kosch, T.A., Lambertini, C., Laurila, A., Lin, C-F., **Loyau, A.**, Martel, A., Meurling, S., Miaud, C., Minting, P., Ndriantsoa, S., O'Hanlon, S.J., Pasmans, F., Rakotonanahary, T., Rabemananjara, F.C.E., Ribeiro, L.P., **Schmeller, D.S.**, Schmidt, B.R., Skerratt, L., Smith, F., Soto-Azat, C., Tessa, G., Toledo, L.F., Valenzuela-Sánchez, A., Verster, R., Vörös, J., Waldman, B., Webb, R.J., Weldon, C., Wombwell, E., Zamudio, K.R., Longcore, J.E., Garner, T.W.J. (2018):
Development and worldwide use of non-lethal, and minimal population-level impact, protocols for the isolation of amphibian chytrid fungi
Sci. Rep. **8**, art. 7772
207. Fléchard, M., Duchesne, R., Tahrioui, A., Bouffartigues, E., Depayras, S., Hardouin, J., Lagy, C., Maillot, O., Tortuel, D., Azuama, C.O., Clamens, T., Duclairoir-Poc, C., Catel-Ferreira, M., Gicquel, G., Feuilloye, M.G.J., Lesouhaitier, O., **Heipieper, H.J.**, Groleau, M.-C., Déziel, E., Cornelis, P., Chevalier, S. (2018):
The absence of SigX results in impaired carbon metabolism and membrane fluidity in *Pseudomonas aeruginosa*
Sci. Rep. **8**, art. 17212
208. Floegel, A., Kühn, T., Sookthai, D., Johnson, T., Prehn, C., **Rolle-Kampczyk, U., Otto, W.**, Weikert, C., Illig, T., **von Bergen, M.**, Adamski, J., Boeing, H., Kaaks, R., Pischedl, T. (2018):
Serum metabolites and risk of myocardial infarction and ischemic stroke: a targeted metabolomic approach in two German prospective cohorts
Eur. J. Epidemiol. **33** (1), 55 - 66
209. Folegot, S., Hannah, D.M., Dugdale, S.J., **Kurz, M.J.**, Drummond, J.D., Klaar, M.J., Lee-Cullin, J., **Keller, T.**, Martí, E., Zarnetske, J.P., Ward, A.S., Krause, S. (2018):
Low flow controls on stream thermal dynamics
Limnologica **68**, 157 - 167
210. **Francioli, D., Schulz, E., Buscot, F., Reitz, T.** (2018):
Dynamics of soil bacterial communities over a vegetation season relate to both soil nutrient status and plant growth phenology
Microb. Ecol. **75** (1), 216 - 227

211. **Franck, U.** (2018):
„Gesundheitliche Risiken von Stickstoffdioxid im Vergleich zu Feinstaub und anderen verkehrsabhängigen Luftschadstoffen“ von H.-Erich Wichmann (2018). Umwelt – Hygiene – Arbeitsmed 23 (2) 57–71. Leserbrief
Umweltmedizin, Hygiene, Arbeitsmedizin **23** (3), 184 - 185
212. Francke, T., **Baroni, G.**, Brosinsky, A., Foerster, S., López-Tarazón, J.A. (2018):
What did really improve our mesoscale hydrological model? A multidimensional analysis based on real observations
Water Resour. Res. **54** (11), 8594 - 8612
213. **Franke, S., Kümmel, S., Nijenhuis, I.** (2018):
Liquid chromatography/isotope ratio mass spectrometry analysis of halogenated benzoates for characterization of the underlying degradation reaction in *Thauera chlorobenzoica* CB-1^T
Rapid Commun. Mass Spectrom. **32** (11), 906 - 912
214. **Franko, U.**, Ruehlmann, J. (2018):
SOC sequestration as affected by historic and present management
Geoderma **321** , 15 - 21
215. Franz, D., Acosta, M., Altimir, N., Arriga, N., Arrouays, D., Aubinet, M., Aurela, M., Ayres, E., López-Ballesteros, A., Barbaste, M., Berveiller, D., Biraud, S., Boukir, H., Brown, T., Brümmer, C., Buchmann, N., Burba, G., Carrara, A., Cescatti, A., Ceschia, E., Clement, R., Cremonese, E., Crill, E., Darenova, E., Dengel, S., D'Odorico, P., Filippa, G., Fleck, S., Fratini, G., Fuß, R., Gielen, B., Gogo, S., Grace, J., Graf, A., Grelle, A., Gross, P., Grünwald, T., Haapanala, S., Hehn, M., Heinesch, B., Heiskanen, J., Herbst, M., Herschlein, C., Hörtnagl, L., Hufkens, K., Ibrom, A., Jolivet, C., Joly, L., Jones, M., Kiese, R., Klemedtsson, L., Kljun, N., Klumpp, K., Kolari, P., Kolle, O., Kowalski, A., Kutsch, W., Laurila, T., de Ligne, A., Linder, S., Lindroth, A., Lohila, A., Longdoz, B., Mammarella, I., Manise, T., Marañón Jiménez, S., Matteucci, G., Mauder, M., Meier, P., Merbold, L., Mereu, S., Metzger, S., Migliavacca, M., Mölder, M., Montagnani, L., Moureaux, C., Nelson, D., Nemitz, E., Nicolini, G., Nilsson, M.B., Op de Beeck, M., Osborne, B., Löfvenius, M.O., Pavelka, M., Peichl, M., Peltola, O., Pihlatie, M., Pitacco, A., Pokorný, R., Pumpanen, J., Ratié, C., **Rebmann, C.**, Roland, M., Sabbatini, S., Saby, N.P.A., Saunders, M., Schmid, H.P., Schrumpf, M., Sedláček, P., Serrano Ortiz, P., Siebicke, L., Šigut, L., Silvennoinen, H., Simioni, G., Skiba, U., Sonnenntag, O., Soudani, K., Soulé, P., Steinbrecher, R., Tallec, T., Thimonier, A., Tuittila, E.-S., Tuovinen, J.-P., Vestin, P., Vincent, G., Vincke, C., Vitale, D., Waldner, P., Weslien, P., Wingate, L., Wohlfahrt, G., Zahniser, M., Vesala, T. (2018):
Towards long-term standardised carbon and greenhouse gas observations for monitoring Europe's terrestrial ecosystems: a review
Int. Agrophys. **32** (4), 439 - 455

216. **Frassl, M.A., Boehrer, B.**, Holtermann, P.L., Zhu, W., Klingbeil, K., Peng, Z., Zhu, J., **Rinke, K.** (2018): Opportunities and limits of using meteorological reanalysis data for simulating seasonal to sub-daily water temperature dynamics in a large shallow lake
Water **10** (5), art. 594
217. Frassl, M.A., Hamilton, D.P., Denfeld, B.A., de Eyto, E., Hampton, S.E., **Keller, P.S.**, Sharma, S., Lewis, A.S.L., Weyhenmeyer, G.A., O'Reilly, C.M., Lofton, M.E., Catalán, N. (2018): Ten simple rules for collaboratively writing a multi-authored paper. Editorial
PLoS Comput. Biol. **14** (11), art. e1006508
218. Frater, P.N., Borer, E.T., Fay, P.A., Jin, V., Knaeble, B., Seabloom, E., Sullivan, L., Wedin, D.A., **Harpole, W.S.** (2018): Nutrients and environment influence arbuscular mycorrhizal colonization both independently and interactively in *Schizachyrium scoparium*
Plant Soil **425** (1–2), 493 - 506
219. Fried, O., **Kühn, I.**, Schrader, J., Nguyen, V.S., Bergmeier, E. (2018): Plant diversity and composition of rice field bunds in Southeast Asia
Paddy Water Environ. **16** (2), 359 - 378
220. **Friesen, J.**, Van Stan II, J.T., Elleuche, S. (2018): Communicating science through comics: a method
Publications **6** (3), art. 38
221. **Friesen, J., Zink, M., Bawain, A., Müller, T.** (2018): Hydrometeorology of the Dhofar cloud forest and its implications for groundwater recharge
J. Hydrol. Reg. Stud. **16** , 54 - 66
222. Frigerio, D., Pipek, P., Kimmig, S., Winter, S., Melzheimer, J., Diblíková, L., Wachter, B., **Richter, A.** (2018): Citizen science and wildlife biology: Synergies and challenges
Ethology **124** (6), 365 - 377
223. **Fritz, P.** (2018): Editorial to special section 'Application of isotopes in river water research'. Special Section: Isotope hydrology in river catchments
Isot. Environ. Health Stud. **54** (2), 113 - 114
224. Fuchs, S., **Kuhlicke, C.** (2018): Naturgefahren und -risiken in Mitteleuropa. Natural hazards and natural risks in Central Europe
Geographische Rundschau **70** (7/8), 4 - 9

225. Gadkari, J., Goris, T., Schiffmann, C.L., Rubick, R., **Adrian, L.**, Schubert, T., Diekert, G. (2018):
Reductive tetrachloroethene dehalogenation in the presence of oxygen by
Sulfurospirillum multivorans: physiological studies and proteome analysis
FEMS Microbiol. Ecol. **94** (1), fix176
226. Gagliano, M.C., **Neu, T.R.**, Kuhlicke, U., Sudmalis, D., Temmink, H., Plugge, C.M. (2018):
EPS glycoconjugate profiles shift as adaptive response in anaerobic microbial granulation at high salinity
Front. Microbiol. **9**, art. 1423
227. Galic, N., Sullivan, L.L., **Grimm, V.**, Forbes, V.E. (2018):
When things don't add up: quantifying impacts of multiple stressors from individual metabolism to ecosystem processing
Ecol. Lett. **21** (4), 568 - 577
228. Gallegos, D., Wedwitschka, H., **Moeller, L.**, Weinrich, S., **Zehnsdorf, A.**, Nelles, M., Stinner, W. (2018):
Mixed silage of *Elodea* and wheat straw as a substrate for energy production in anaerobic digestion plants
Energy Sustain. Soc. **8**, art. 7
229. Gálvez, N., Guillera-Arroita, G., St. John, F.A.V., **Schüttler, E.**, Macdonald, D.W., Davies, Z.G. (2018):
A spatially integrated framework for assessing socioecological drivers of carnivore decline
J. Appl. Ecol. **55** (3), 1393 - 1405
230. **Gawel, E.**, Lehmann, P., Strunz, S., Heuson, C. (2018):
Public Choice barriers to efficient climate adaptation – theoretical insights and lessons learned from German flood disasters
J. Inst. Econ. **14** (3), 473 - 499
231. **Geistlinger, H.**, Leuther, F. (2018):
Evaporation study for real soils based on HYPROP hydraulic functions and micro-CT-measured pore-size distribution
Vadose Zone J. **17** (1), art. 180041
232. Gérard, M., Vanderplanck, M., **Franzén, M.**, Kuhlmann, M., Potts, S.G., Rasmont, P., **Schweiger, O.**, Michez, D. (2018):
Patterns of size variation in bees at a continental scale: does Bergmann's rule apply?
Oikos **127** (8), 1095 - 1103

233. **Ghanem, N., Trost, M., Sanchez Fontanet, L., Harms, H., Chatzinotas, A., Wick, L.Y.** (2018):
Changes of the specific infectivity of tracer phages during transport in porous media
Environ. Sci. Technol. **52** (6), 3486 - 3492
234. Gilabert-Alarcón, C., Daesslé, L.W., Salgado-Méndez, S.O., Pérez-Flores, M.A., **Knöller, K.**, Kretzschmar, T.G., Stumpf, C. (2018):
Effects of reclaimed water discharge in the Maneadero coastal aquifer, Baja California, Mexico
Appl. Geochem. **92** , 121 - 139
235. Göpel, J., Schüngel, J., Schaldach, R., Meurer, K.H.E., Jungkunst, H.F., **Franko, U.**, Boy, J., Strey, R., Strey, S., Guggenberger, G., Hampf, A., Parker, P. (2018):
Future land use and land cover in Southern Amazonia and resulting greenhouse gas emissions from agricultural soils
Reg. Envir. Chang. **18** (1), 129 - 142
236. **Goss, K.U., Bittermann, K.** (2018):
Predicting apparent passive permeability of Caco-2 and MDCK cell-monolayers: A mechanistic model
Naunyn-Schmiedebergs Arch. Pharmacol. **391** (Suppl. 1), S14 - S14
237. **Goss, K.-U., Bittermann, K., Henneberger, L., Linden, L.** (2018):
Equilibrium biopartitioning of organic anions - A case study for humans and fish
Chemosphere **199** , 174 - 181
238. **Goss, K.-U., Linden, L., Ulrich, N.**, Schlechtriem, C. (2018):
Revisiting elimination half life as an indicator for bioaccumulation in fish and terrestrial mammals
Chemosphere **210** , 341 - 346
239. **Graeber, D.**, Lorenz, S., Rosenstand Poulsen, J., Heinz, M., von Schiller, D., Gücker, B., Gelbrecht, J., Kronvang, B. (2018):
Assessing net-uptake of nitrate and natural dissolved organic matter fractions in a revitalized lowland stream reach
Limnologica **68** , 82 - 91
240. **Graeber, D.**, Rosenstand Poulsen, J., Heinz, M., Rasmussen, J.J., Zak, D., Gücker, B., Kronvang, B., **Kamjunke, N.** (2018):
Going with the flow: Planktonic processing of dissolved organic carbon in streams
Sci. Total Environ. **625** , 519 - 530

241. Graupner, B.J., Shao, H., Wang, X.R., Nguyen, T.S., Li, Z., Rutqvist, J., Chen, F., Birkholzer, J., **Wang, W.**, Kolditz, O., Pan, P.Z., Feng, X.T., Lee, C., Maekawa, K., Stothoff, S., Manepally, C., Dasgupta, B., Ofoegbu, G., Fedors, R., Barnichon, J.D., Ballarini, E., Bauer, S., Garitte, B. (2018): Comparative modelling of the coupled thermal–hydraulic-mechanical (THM) processes in a heated bentonite pellet column with hydration
Environ. Earth Sci. **77** (3), art. 84
242. **Grimm-Seyfarth, A.**, Mihoub, J.-B., Gruber, B., Henle, K. (2018): Some like it hot: from individual to population responses of an arboreal arid-zone gecko to local and distant climate
Ecol. Monogr. **88** (3), 336 - 352
243. Grobblér, C., Virdis, B., Nouwens, A., **Harnisch, F.**, Rabaey, K., Bond, P.L. (2018): Effect of the anode potential on the physiology and proteome of *Shewanella oneidensis* MR-1
Bioelectrochemistry **119** , 172 - 179
244. Guderle, M., Bachmann, D., Milcu, A., Gockele, A., Bechmann, M., **Fischer, C.**, **Roscher, C.**, Landais, D., Ravel, O., Devidal, S., Roy, J., Gessler, A., Buchmann, N., Weigelt, A., Hildebrandt, A. (2018): Dynamic niche partitioning in root water uptake facilitates efficient water use in more diverse grassland plant communities
Funct. Ecol. **32** (2), 214 - 227
245. Guerrero, P., **Haase, D.**, Albert, C. (2018): Locating spatial opportunities for nature-based solutions: A river landscape application
Water **10** (12), art. 1869
246. **Guio Blanco, C.M.**, Brito Gomez, V.M., Crespo, P., **Ließ, M.** (2018): Spatial prediction of soil water retention in a Páramo landscape: methodological insight into machine learning using random forest
Geoderma **316** , 100 - 114
247. Guiz, J., Ebeling, A., Eisenhauer, N., Hacker, N., Hertzog, L., Oelmann, Y., **Roscher, C.**, Wagg, C., Hillebrand, H. (2018): Interspecific competition alters leaf stoichiometry in 20 grassland species
Oikos **127** (7), 903 - 914
248. **Günther, S.**, Becker, D., Hübschmann, T., Reinert, S., Kleinsteuber, S., Müller, S., Wilhelm, C. (2018): Long-term biogas production from glycolate by diverse and highly dynamic communities
Microorganisms **6** (4), art. 130

249. **Günther, S.**, Grunert, M., **Müller, S.** (2018):
Overview of recent advances in phosphorus recovery for fertilizer production
Eng. Life Sci. **18** (7), 434 - 439
250. **Guo, C.**, **Schwarz, N.**, **Buchmann, C.M.** (2018):
Exploring the added value of population distribution indicators for studies of European urban form
Appl. Spat. Anal. Policy **11** (3), 439 - 463
251. Gyllenhammar, I., Benskin, J.P., Sandblom, O., **Berger, U.**, Ahrens, L., Lignell, S., Wiberg, K., Glynn, A. (2018):
Perfluoroalkyl acids (PFAAs) in serum from 2–4-month-old infants: Influence of maternal serum concentration, gestational age, breast-feeding, and contaminated drinking water
Environ. Sci. Technol. **52** (12), 7101 - 7110
252. Gyllenhammar, I., Diderholm, B., Gustafsson, J., **Berger, U.**, Ridefelt, P., Benskin, J.P., Lignell, S., Lampa, E., Glynn, A. (2018):
Perfluoroalkyl acid levels in first-time mothers in relation to offspring weight gain and growth
Environ. Int. **111** , 191 - 199
253. Gys, C., Kovačič, A., **Huber, C.**, Lai, F.Y., Heath, E., Covaci, A. (2018):
Suspect and untargeted screening of bisphenol S metabolites produced by *in vitro* human liver metabolism
Toxicol. Lett. **295** , 115 - 123
254. Haase, P., Tonkin, J.D., Stoll, S., Burkhardt, B., **Frenzel, M.**, Geijzendorffer, I.R., Häuser, C., **Klotz, S.**, **Kühn, I.**, McDowell, W.H., Mirtl, M., Müller, F., **Musche, M.**, Penner, J., **Zacharias, S.**, **Schmeller, D.S.** (2018):
The next generation of site-based long-term ecological monitoring: Linking essential biodiversity variables and ecosystem integrity
Sci. Total Environ. **613–614** , 1376 - 1384
255. Hagemann, M., Gärtner, K., Scharnagl, M., Bolay, P., Lott, S.C., Fuss, J., Huettel, B., Reinhardt, R., **Klähn, S.**, Hess, W.R. (2018):
Identification of the DNA methyltransferases establishing the methylome of the cyanobacterium *Synechocystis* sp. PCC 6803
DNA Res. **25** (4), 343 - 352
256. **Händel, F.**, Engelmann, C., Klotzsch, S., Fichtner, T., Binder, M., Graeber, P.-W. (2018):
Evaluation of decentralized, closely-spaced precipitation water and treated wastewater infiltration
Water **10** (10), art. 1460

257. Hanel, M., **Rakovec, O.**, Markonis, Y., Máca, P., **Samaniego, L.**, Kysely, J., **Kumar, R.** (2018):
Revisiting the recent European droughts from a long-term perspective
Sci. Rep. **8**, art. 9499
258. **Hansjürgens, B.**, Lienkamp, A., **Möckel, S.** (2018):
Justifying soil protection and sustainable soil management: creation-ethical, legal and economic considerations
Sustainability **10** (10), art. 3807
259. **Harnisch, F.**, Urban, C. (2018):
Electrobiorefineries: Unlocking the synergy of electrochemical and microbial conversions
Angew. Chem.-Int. Edit. **57** (32), 10016 - 10023
260. **Harris, R.M.B.**, Beaumont, L.J., Vance, T.R., Tozer, C.R., Remenyi, T.A., Perkins-Kirkpatrick, S.E., Mitchell, P.J., Nicotra, A.B., McGregor, S., Andrew, N.R., Letnic, M., Kearney, M.R., Wernberg, T., Hutley, L.B., Chambers, L.E., Fletcher, M.-S., Keatley, M.R., Woodward, C.A., Williamson, G., Duke, N.C., Bowman, D.M.J.S. (2018):
Biological responses to the press and pulse of climate trends and extreme events
Nat. Clim. Chang. **8**, 579 - 587
261. Hartmann, T., **Bernt, M.**, Middendorf, M. (2018):
EqualTDRL: illustrating equivalent tandem duplication random loss rearrangements
BMC Bioinformatics **19**, art. 192
262. **Hashmi, M.A.K.**, **Escher, B.I.**, **Krauss, M.**, Teodorovic, I., **Brack, W.** (2018):
Effect-directed analysis (EDA) of Danube River water sample receiving untreated municipal wastewater from Novi Sad, Serbia
Sci. Total Environ. **624**, 1072 - 1081
263. Hass, A.L., Liese, B., Heong, K.L., **Settele, J.**, Tscharntke, T., Westphal, C. (2018):
Plant-pollinator interactions and bee functional diversity are driven by agroforests in rice-dominated landscapes
Agric. Ecosyst. Environ. **253**, 140 - 147
264. Hattermann, F.F., Vetter, T., Breuer, L., Su, B., Daggupati, P., Donnelly, C., Fekete, B., Flörke, F., Gosling, S.N., Hoffmann, P., Liersch, S., Masaki, Y., Motovilov, Y., Müller, C., **Samaniego, L.**, Stacke, T., Wada, Y., Yang, T., Krysnaova, V. (2018):
Sources of uncertainty in hydrological climate impact assessment: a cross-scale study
Environ. Res. Lett. **13** (1), art. 015006

265. **Hausmann, J.**, Zielhofer, C., Werther, L., Berg-Hobohm, S., **Dietrich, P.**, Heymann, R., **Werban, U.** (2018): Direct push sensing in wetland (geo)archaeology: High-resolution reconstruction of buried canal structures (*Fossa Carolina*, Germany)
Quat. Int. **473** (Part A), 21 - 36
266. Hautier, Y., Isbell, F., Borer, E.T., Seabloom, E.W., **Harpole, W.S.**, Lind, E.M., MacDougall, A.S., Stevens, C.J., Adler, P.B., Alberti, J., Bakker, J.D., Brudvig, L.A., Buckley, Y.M., Cadotte, M., Caldeira, M.C., Chaneton, E.J., Chu, C., Daleo, P., Dickman, C.R., Dwyer, J.M., **Eskelinen, A.**, Fay, P.A., Firn, J., Hagenah, N., Hillebrand, H., Iribarne, O., Kirkman, K.P., Knops, J.M.H., Pierre, K.J.L., McCulley, R.L., Morgan, J.W., Pärtel, M., Pascual, J., Price, J.N., Prober, S.M., Risch, A.C., Sankaran, M., Schuetz, M., Standish, R.J., **Virtanen, R.**, Wardle, G.M., Yahdjian, L., Hector, A. (2018): Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality
Nat. Ecol. Evol. **2** (1), 50 - 56
267. Hawer, H., Ütkür, K., Arend, M., Mayer, K., **Adrian, L.**, Brinkmann, U., Schaffrath, R. (2018): Importance of diphthamide modified EF2 for translational accuracy and competitive cell growth in yeast
PLOS One **13** (10), e0205870
268. Hebert, A., Feliers, C., Lecarpentier, C., Neale, P.A., **Schlichting, R.**, Thibert, S., **Escher, B.I.** (2018): Bioanalytical assessment of adaptive stress responses in drinking water: A predictive tool to differentiate between micropollutants and disinfection by-products
Water Res. **132** , 340 - 349
269. **Hegner, R.**, **Rosa, L.F.M.**, **Harnisch, F.** (2018): Electrochemical CO₂ reduction to formate at indium electrodes with high efficiency and selectivity in pH neutral electrolytes
Appl. Catal. B-Environ. **238** , 546 - 556
270. **Heink, U.**, Van Herzele, A., Bela, G., Kalóczkai, A., **Jax, K.** (2018): Different arguments, same conclusions: how is action against invasive alien species justified in the context of European policy?
Biodivers. Conserv. **27** (7), 1659 - 1677
271. **Heintz-Buschart, A.**, Wilmes, P. (2018): Human gut microbiome: function matters
Trends Microbiol. **26** (7), 563 - 574

272. **Heintz-Buschart, A.**, Yusuf, D., Kaysen, A., Etheridge, A., Fritz, J.V., May, P., de Beaufort, C., Upadhyaya, B.B., Ghosal, A., Galas, D.J., Wilmes, P. (2018): Small RNA profiling of low biomass samples: identification and removal of contaminants
BMC Biol. **16**, art. 52
273. Helbig, T., Gilbricht, S., **Lehmann, F.**, **Daus, B.**, Kelly, N., Haseneder, R., Scharf, C. (2018): Oxidative leaching of a sulfidic flue dust of former copper shale processing with focus on rhenium
Miner. Eng. **128**, 168 - 178
274. Helming, K., Daedlow, K., **Hansjürgens, B.**, Koellner, T. (2018): Assessment and governance of sustainable soil management
Sustainability **10** (12), art. 4432
275. Helming, K., Daedlow, K., Paul, C., Techel, A.-K., **Bartke, S.**, **Bartkowski, B.**, Kaiser, D., **Wollschläger, U.**, **Vogel, H.-J.** (2018): Managing soil functions for a sustainable bioeconomy—Assessment framework and state of the art
Land Degrad. Dev. **29** (9), 3112 - 3126
276. Hendgen, M., **Hoppe, B.**, Döring, J., Friedel, M., Kauer, R., Frisch, M., Dahl, A., Kellner, H. (2018): Effects of different management regimes on microbial biodiversity in vineyard soils
Sci. Rep. **8**, art. 9393
277. **Henle, K.**, **Gruber, B.** (2018): Performance of multistate mark-recapture models for temporary emigration in the presence of survival costs
Methods Ecol. Evol. **9** (3), 657 - 667
278. Henschke, N., Pakhomov, E.A., **Groeneveld, J.**, Meyer, B. (2018): Modelling the life cycle of *Salpa thompsoni*
Ecol. Model. **387**, 17 - 26
279. Herbst, A., **von Tümpeling, W.**, Schubert, H. (2018): The seasonal effects on the encrustation of charophytes in two hard-water lakes
J. Phycol. **54** (5), 630 - 637
280. Herrero, A., Gutiérrez-Cánovas, C., Vigiak, O., **Lutz, S.**, **Kumar, R.**, Gampe, D., Huber-García, V., Ludwig, R., Batalla, R., Sabater, S. (2018): Multiple stressor effects on biological quality elements in the Ebro River: Present diagnosis and predicted responses
Sci. Total Environ. **630**, 1608 - 1618

281. **Hildebrandt, J., Bezama, A.** (2018):
Cross-fertilisation of ideas for a more sustainable fertiliser market: The need to incubate business concepts for harnessing organic residues and fertilisers on biotechnological conversion platforms in a circular bioeconomy
Waste Manage. Res. **36** (12), 1125 - 1126
282. **Hildebrandt, J., O'Keeffe, S., Bezama, A., Thrän, D.** (2018):
Revealing the environmental advantages of industrial symbiosis in wood-based bioeconomy networks : an assessment from a life cycle perspective
J. Ind. Ecol.
283. Hillebrand, H., Blasius, B., Borer, E.T., Chase, J.M., Downing, J.A., Eriksson, B.K., Filstrup, C.T., **Harpole, W.S.**, Larsen, S., Lewandowska, A.M., Seabloom, E.W., Van de Waal, D.B., Ryabov, A.B. (2018):
Biodiversity change is uncoupled from species richness trends: Consequences for conservation and monitoring
J. Appl. Ecol. **55** (1), 169 - 184
284. **Hiltner, U., Huth, A., Bräuning, A., Héault, B., Fischer, R.** (2018):
Simulation of succession in a neotropical forest: High selective logging intensities prolong the recovery times of ecosystem functions
For. Ecol. Manage. **430** , 517 - 525
285. Hintze, V., Rother, S., Köhler, L., Hempel, U., Anderegg, U., Pisabarro, M.T., Hofbauer, L., Schnabelrauch, M., Franz, S., **von Bergen, M.**, Simon, J., Scharnweber, D. (2018):
Glycosaminoglycan derivatives - functional nanostructures modulating healing processes in bone and skin
FEBS Open Bio **8** (S1), 50 - 50
286. Hirt, M.R., **Grimm, V.**, Li, Y., Rall, B.C., Rosenbaum, B., Brose, U. (2018):
Bridging scales: allometric random walks link movement and biodiversity research
Trends Ecol. Evol. **33** (9), 701 - 712
287. Hoberg, N., **Strunz, S.** (2018):
When individual preferences defy sustainability - Can merit good arguments close the gap?
Ecol. Econ. **143** , 286 - 293

288. Hodapp, , Borer, E.T., **Harpole, W.S.**, Lind, E.M., Seabloom, E.W., Adler, P.B., Alberti, J., Arnillas, C.A., Bakker, J.D., Biederman, L., Cadotte, M., Cleland, E.E., Collins, S., Fay, P.A., Firn, J., Hagenah, N., Hautier, Y., Iribarne, O., Knops, J.M.H., McCulley, R.L., MacDougall, A., Moore, J.L., Morgan, J.W., Mortensen, B., La Pierre, K.J., Risch, A.C., Schütz, M., Peri, P., Stevens, C.J., Wright, J., Hillebrand, H. (2018):
Spatial heterogeneity in species composition constrains plant community responses to herbivory and fertilisation
Ecol. Lett. **21** (9), 1364 - 1371
289. **Hofmann, S.**, Mebert, K., Schulz, K.-D., Helfenberger, N., Göçmen, B., Böhme, W. (2018):
A new subspecies of *Zamenis hohenackeri* (Strauch, 1873) (Serpentes: Colubridae) based on morphological and molecular data
Zootaxa **4471** (1), 137 - 153
290. **Hofmann, U.**, Fenu, A., Beffa, T., Beimfohr, C., Weemaes, M., Yu, L., **Schrader, S.**, **Moeder, M.**, **Schlosser, D.** (2018):
Evaluation of the applicability of the aquatic ascomycete *Phoma* sp. UHH 5-1-03 for the removal of pharmaceutically active compounds from municipal wastewaters using membrane bioreactors
Eng. Life Sci. **18** (7), 510 - 519
291. Höllering, S., Wienhöfer, J., Ihringer, J., **Samaniego, L.**, Zehe, E. (2018):
Regional analysis of parameter sensitivity for simulation of streamflow and hydrological fingerprints
Hydrol. Earth Syst. Sci. **22** (1), 203 - 220
292. Hollert, H., Crawford, S.E., **Brack, W.**, Brinkmann, M., Fischer, E., Hartmann, K., Keiter, S., Ottermanns, R., Ouellet, J.D., **Rinke, K.**, Rösch, M., Roß-Nickoll, M., Schäffer, A., Schüth, C., **Schulze, T.**, Schwarz, A., Seiler, T.-B., Wessels, M., Hinderer, M., Schwalb, A. (2018):
Looking back - Looking forward: A novel multi-time slice weight-of-evidence approach for defining reference conditions to assess the impact of human activities on lake systems
Sci. Total Environ. **626** , 1036 - 1046
293. Holliger, C., **Nijenhuis, I.** (2018):
Special issue on anaerobic biological dehalogenation. Editorial
FEMS Microbiol. Ecol. **94** (6), fiy054
294. **Holzer, F.**, **Kopinke, F.-D.**, **Roland, U.** (2018):
Non-thermal plasma treatment for the elimination of odorous compounds from exhaust air from cooking processes
Chem. Eng. J. **334** , 1988 - 1995

295. Hongsanan, S., Jeewon, R., **Purahong, W.**, Xie, N., Liu, J.-K., Jayawardena, R.S., Ekanayaka, A.H., Dissanayake, A., Raspé, O., Hyde, K.D., Stadler, M., Peršoh, D. (2018):
Can we use environmental DNA as holotypes?
Fungal Divers. **92** (1), 1 - 30
296. Horgan, F.G., Bernal, C.C., **Vu, Q.**, Almazan, M.L.P., Ramal, A.F., Yasui, H., Fujita, D. (2018):
Virulence adaptation in a rice leafhopper: Exposure to ineffective genes compromises pyramided resistance
Crop Prot. **113** , 40 - 47
297. Horgan, F.G., **Vu, Q.**, Bernal, C.C., Ramal, A.F., Villegas, J.M., Almazan, M.L.P. (2018):
Population development of rice black bug, *Scotinophara latiuscula* (Breddin), under varying nitrogen in a field experiment
Entomol. Gen. **37** (1), 19 - 33
298. Horschig, T., Adams, P.W.R., **Gawel, E.**, **Thrän, D.** (2018):
How to decarbonize the natural gas sector: A dynamic simulation approach for the market development estimation of renewable gas in Germany
Appl. Energy **213** , 555 - 572
299. **Hoschek, A.**, **Schmid, A.**, **Bühler, B.** (2018):
In situ O₂ generation for biocatalytic oxyfunctionalization reactions
ChemCatChem **10** (23), 5366 - 5371
300. Hoyer, C., Pfütze, C., Plarre, R., **Trommler, U.**, Steinbach, S., Klutzny, K., **Holzer, F.**, Rabe, C., **Höhligr, B.**, Schmidt, D., **Roland, U.** (2018):
Chemical-free pest control by dielectric heating with radio waves and microwaves: thermal effects
Chem. Eng. Technol. **41** (1), 108 - 115
301. **Hu, M.**, **Müller, E.**, Schymanski, E.L., Ruttkies, C., **Schulze, T.**, **Brack, W.**, **Krauss, M.** (2018):
Performance of combined fragmentation and retention prediction for the identification of organic micropollutants by LC-HRMS
Anal. Bioanal. Chem. **410** (7), 1931 - 1941
302. Huang, S., **Kumar, R.**, **Rakovec, O.**, Aich, V., Wang, X., **Samaniego, L.**, Liersch, S., Krysanova, V. (2018):
Multimodel assessment of flood characteristics in four large river basins at global warming of 1.5, 2.0 and 3.0 K above the pre-industrial level
Environ. Res. Lett. **13** (12), art. 124005

303. Huang, Y., Chen, Y., Castro-Izaguirre, N., Baruffol, M., Brezzi, M., Lang, A., Li, Y., Härdtle, W., von Oheimb, G., Yang, X., Liu, X., Pei, K., Both, S., Yang, B., Eichenberg, D., Assmann, T., Bauhus, J., Behrens, T., **Buscot, F.**, Chen, X.-Y., Chesters, D., Ding, B.-Y., **Durka, W.**, Erfmeier, A., Fang, J., Fischer, M., Guo, L.-D., Guo, D., Gutknecht, J.L.M., He, J.-S., He, C.-L., Hector, A., Hönig, L., Hu, R.-Y., Klein, A.-M., Kühn, P., Liang, Y., Li, S., **Michalski, S.**, Scherer-Lorenzen, M., Schmidt, K., Scholten, T., Schuldt, A., Shi, X., Tan, M.-Z., Tang, Z., Trogisch, S., Wang, Z., Welk, E., Wirth, C., **Wubet, T.**, Xiang, W., Yu, M., Yu, X.-D., Zhang, J., Zhang, S., Zhang, N., Zhou, H.-Z., Zhu, C.-D., Zhu, L., Bruelheide, H., Ma, K., Niklaus, P.A., Schmid, B. (2018):
Impacts of species richness on productivity in a large-scale subtropical forest experiment
Science **362** (6410), 80 - 83
304. **Huang, Y., Shao, H.**, Wieland, E., **Kolditz, O.**, Kosakowski, G. (2018):
A new approach to coupled two-phase reactive transport simulation for long-term degradation of concrete
Constr. Build. Mater. **190** , 805 - 829
305. Huber, R., Bakker, M., Balmann, A., Berger, T., Bithell, M., Brown, C., Grêt-Regamey, A., Xiong, H., Le, Q.B., Mack, G., Meyfroidt, P., Millington, J., **Müller, B.**, Polhill, J.G., Sun, Z., Seidl, R., Troost, C., Finger, R. (2018):
Representation of decision-making in European agricultural agentbased models
Agric. Syst. **167** , 143 - 160
306. Hueffer, T., Praetorius, A., **Wagner, S.**, von der Kammer, F., Hofmann, T. (2018):
Microplastic exposure assessment from the perspective of nanoparticle research
Abstr. Paper Am. Chem. Soc. **255** , art. 86
307. Hufkens, K., Filippa, G., Cremonese, E., Migliavacca, M., D'Odorico, P., Peichl, M., Gielen, B., Hörtndl, L., Soudani, K., Papale, D., **Rebmann, C.**, Brown, T., Wingate, L. (2018):
Assimilating phenology datasets automatically across ICOS ecosystem stations
Int. Agrophys. **32** (4), 677 - 687
308. Hügle, M., Dame, G., Behrmann, O., Rietzel, R., **Karthe, D.**, Hufert, F.T., Urban, G.A. (2018):
An integrated lab-on-a-chip for preconcentration of bacteria and nucleic acid extraction
RSC Advances **36** (8), 20124 - 20130
309. Hügle, M., Dame, G., Behrmann, O., Rietzel, R., **Karthe, D.**, Hufert, F.T., Urban, G.A. (2018):
Correction: A lab-on-a-chip for preconcentration of bacteria and nucleic acid extraction (vol 8, pg 20124, 2018)
RSC Advances **8** (47), 26817 - 26817

310. Hulme, P.E., Brundu, G., Carboni, M., Dehnen-Schmutz, K., Dullinger, S., Early, R., Essl, F., González-Moreno, P., Groom, Q.J., Kueffer, C., **Kühn, I.**, Maurel, N., Novoa, A., Pergl, J., Pyšek, P., Seebens, H., Tannert, R., Touza, J.M., van Kleunen, M., Verbrugge, L.N.H. (2018):
Integrating invasive species policies across ornamental horticulture supply chains to prevent plant invasions
J. Appl. Ecol. **55** (1), 92 - 98
311. Hüls, A., Klümper, C., MacIntyre, E.A., Brauer, M., Melén, E., **Bauer, M.**, Berdel, D., Bergström, A., Brunekreef, B., Chan-Yeung, M., Fuertes, E., Gehring, U., Gref, A., Heinrich, J., Standl, M., **Lehmann, I.**, Kerkhof, M., Koppelman, G.H., Kozyrskyj, A.L., Pershagen, G., Carlsten, C., Krämer, U., Schikowski, T. (2018):
Atopic dermatitis: Interaction between genetic variants of *GSTP1*, *TNF*, *TLR2*, and *TLR4* and air pollution in early life
Pediatr. Allergy Immunol. **29** (6), 596 - 605
312. Hund-Rinke, K., Schlich, K., **Kühnel, D.**, Hellack, B., Kaminski, H., Nickel, C. (2018):
Grouping concept for metal and metal oxide nanomaterials with regard to their ecotoxicological effects on algae, daphnids and fish embryos
NanoImpact **9** , 52 - 60
313. Hussain, Z., **Arslan, M.**, Malik, M.H., Mohsin, M., Iqbal, S., Afzal, M. (2018):
Treatment of the textile industry effluent in a pilot-scale vertical flow constructed wetland system augmented with bacterial endophytes
Sci. Total Environ. **645** , 966 - 973
314. Hussain, Z., **Arslan, M.**, Malik, M.H., Mohsin, M., Iqbal, S., Afzal, M. (2018):
Integrated perspectives on the use of bacterial endophytes in horizontal flow constructed wetlands for the treatment of liquid textile effluent: Phytoremediation advances in the field
J. Environ. Manage. **224** , 387 - 395
315. Imber, M., Huyen, N.T.T., Pietrzyk-Brzezinska, A.J., Loi, V.V., Hillion, M., Bernhardt, J., Thärichen, L., Kolšek, K., Saleh, M., Hamilton, C.J., **Adrian, L.**, Gräter, F., Wahl, M.C., Antelmann, H. (2018):
Protein *S*-bacillithiolation functions in thiol protection and redox regulation of the glyceraldehyde-3-phosphate dehydrogenase Gap in *Staphylococcus aureus* under hypochlorite stress
Antioxid. Redox Signal. **28** (6), 410 - 430
316. Ingrao, C., Bacenetti, J., **Bezama, A.**, Blok, V., Goglio, P., Koukios, E.G., Lindner, M., Nemecek, T., Siracusa, V., Zabaniotou, A., Huisingsh, D. (2018):
The potential roles of bio-economy in the transition to equitable, sustainable, post fossil-carbon societies: Findings from this virtual special issue
J. Clean Prod. **204** , 471 - 488

317. **Inostroza, P.A.**, Vera-Escalona, I., **Wild, R.**, **Norf, H.**, **Brauns, M.** (2018):
Tandem action of natural and chemical stressors in stream ecosystems: insights from a population genetic perspective
Environ. Sci. Technol. **52** (14), 7962 - 7971
318. Iqbal, K., Dietrich, S., Wittenbecher, C., Krumsiek, J., Kühn, T., Lacruz, M.E., Kluttig, A., Prehn, C., Adamski, J., **von Bergen, M.**, Kaaks, R., Schulze, M.B., Boeing, H., Floegel, A. (2018):
Comparison of metabolite networks from four German population-based studies
Int. J. Epidemiol. **47** (6), 2070 - 2081
319. Jacobs, S., Martín-López, B., Barton, D.N., Dunford, R., Harrison, P.A., Kelemen, E., Saarikoski, H., Termansen, M., García-Llorente, M., Gómez-Baggethun, E., Koppenothen, L., Luque, S., Palomo, I., **Priess, J.A.**, Rusch, G.M., Tenerelli, P., Turkelboom, F., Demeyer, R., **Hauck, J.**, Keune, H., Smith, R. (2018):
The means determine the end – Pursuing integrated valuation in practice
Ecosystem Services **29** (Part C), 515 - 528
320. Jacoby, C., Eipper, J., Warnke, M., Tiedt, O., Mergelsberg, M., **Stärk, H.-J.**, **Daus, B.**, Martín-Moldes, Z., Zamarro, M.T., Díaz, E., Boll, M. (2018):
Four molybdenum-dependent steroid C-25 hydroxylases: Heterologous overproduction, role in steroid degradation, and application for 25-hydroxyvitamin D₃ synthesis
mBio **9** (3), e00694-18
321. Jácome-Flores, M.E., Delibes, M., **Wiegand, T.**, **Fedriani, J.M.** (2018):
Spatio-temporal arrangement of *Chamaerops humilis* inflorescences and occupancy patterns by its nursery pollinator, *Dereolomus chamaeropsis*
Ann. Bot. **121** (3), 471 - 482
322. Jaeger-Erben, M., Kramm, J., Sonnberger, M., Völker, C., Albert, C., Graf, A., **Hermans, K.**, Lange, S., Santarius, T., Schröter, B., Sievers-Glotzbach, S., Winzer, J. (2018):
Building capacities for transdisciplinary research challenges and recommendations for early-career researchers
GAIA **27** (4), 379 - 386
323. **Jaganmohan, M.**, Vailshery, L.S., Mundoli, S., Nagendra, H. (2018):
Biodiversity in sacred urban spaces of Bengaluru, India
Urban For. Urban Green. **32** , 64 - 70
324. **Jäger, C.G.**, **Borchardt, D.** (2018):
Longitudinal patterns and response lengths of algae in riverine ecosystems: A model analysis emphasising benthic-pelagic interactions
J. Theor. Biol. **442** , 66 - 78

325. **Jahangiri, E.**, Thomas, I., Schulze, A., **Seiwert, B.**, Cabana, H., **Schlosser, D.** (2018): Characterisation of electron beam irradiation-immobilised laccase for application in wastewater treatment
Sci. Total Environ. **624**, 309 - 322
326. **Jahnke, A.**, Sobek, A., Bergmann, M., Bräunig, J., **Landmann, M.**, Schäfer, S., **Escher, B.I.** (2018): Emerging investigator series: effect-based characterization of mixtures of environmental pollutants in diverse sediments
Environ. Sci.-Proc. Imp. **20** (12), 1667 - 1679
327. **Jahreis, S.**, **Trump, S.**, **Bauer, M.**, Bauer, T., **Thürmann, L.**, **Feltens, R.**, Wang, Q., Gu, L., **Grützmann, K.**, **Röder, S.**, Averbeck, M., Weichenhan, D., Plass, C., Sack, U., Borte, M., **Dubourg, V.**, **Schüürmann, G.**, Simon, J.C., **von Bergen, M.**, **Hackermüller, J.**, Eils, R., **Lehmann, I.**, **Polte, T.** (2018): Maternal phthalate exposure promotes allergic airway inflammation over 2 generations through epigenetic modifications
J. Allergy Clin. Immunol. **141** (2), 741 - 753
328. Janke, L., Weinrich, S., **Leite, A.F.**, **Sträuber, H.**, Radetski, C.M., **Nikolausz, M.**, Nelles, M., Stinner, W. (2018): Year-round biogas production in sugarcane biorefineries: Process stability, optimization and performance of a two-stage reactor system
Energy Conv. Manag. **168**, 188 - 199
329. Jarque, S., **Fetter, E.**, Veneman, W.J., Spaink, H.P., Perivali, R., Strähle, U., **Scholz, S.** (2018): An automated screening method for detecting compounds with goitrogenic activity using transgenic zebrafish embryos
PLOS One **13** (8), e0203087
330. **Jax, K.**, Calestani, M., Chan, K.M.A., Eser, U., Keune, H., Muraca, B., O'Brien, L., Potthast, T., Voget-Kleschin, L., **Wittmer, H.** (2018): Caring for nature matters: a relational approach for understanding nature's contributions to human well-being
Curr. Opin. Environ. Sustain. **35**, 22 - 29
331. **Jax, K.**, Furman, E., Saarikoski, H., Barton, D.N., Delbaere, B., Dick, J., Duke, G., Görg, C., Gómez-Bagethun, E., Harrison, P.A., Maes, J., Pérez-Soba, M., Saarela, S.-R., Turkelboom, F., van Dijk, J., Watt, A.D. (2018): Handling a messy world: Lessons learned when trying to make the ecosystem services concept operational
Ecosystem Services **29** (Part C), 415 - 427

332. Jayawardena, R.S., **Purahong, W.**, Zhang, W., **Wubet, T.**, Li, X., Liu, M., Zhao, W., Hyde, K.D., Liu, J., Yan, J. (2018):
Biodiversity of fungi on *Vitis vinifera* L. revealed by traditional and high-resolution culture-independent approaches
Fungal Divers. **90** (1), 1 - 84
333. Jesch, A., Barry, K.E., Ravenek, J.M., Bachmann, D., Strecker, T., Weigelt, A., Buchmann, N., de Kroon, H., Gessler, A., Mommer, L., **Roscher, C.**, Scherer-Lorenzen, M. (2018):
Below-ground resource partitioning alone cannot explain the biodiversity–ecosystem function relationship: A field test using multiple tracers
J. Ecol. **106** (5), 2002 - 2018
334. **Ji, L.**, Ji, S., Wang, C., Kepp, K.P. (2018):
Molecular mechanism of alternative P450-catalyzed metabolism of environmental phenolic endocrine-disrupting chemicals
Environ. Sci. Technol. **52** (7), 4422 - 4431
335. Jimenez-Sanchez, C., **Wick, L.Y.**, Ortega-Calvo, J.-J. (2018):
Impact of chemoeffectors on bacterial motility, transport, and contaminant degradation in sand-filled percolation columns
Environ. Sci. Technol. **52** (18), 10673 - 10679
336. Jin, B., **Nijenhuis, I.**, Rolle, M. (2018):
Simulation of dual carbon–bromine stable isotope fractionation during 1,2-dibromoethane degradation
Isot. Environ. Health Stud. **54** (4), 418 - 434
337. **Jing, M.**, Heße, F., Kumar, R., Wang, W., Fischer, T., Walther, M., Zink, M., Zech, A., Samaniego, L., Kolditz, O., Attinger, S. (2018):
Improved regional-scale groundwater representation by the coupling of the mesoscale Hydrologic Model (mHM v5.7) to the groundwater model OpenGeoSys (OGS)
Geosci. Model Dev. **11** (5), 1989 - 2007
338. **Jomaa, S.**, Aboud, I., Dupas, R., Yang, X., Rozemeijer, J., **Rode, M.** (2018):
Improving nitrate load estimates in an agricultural catchment using Event Response Reconstruction
Environ. Monit. Assess. **190** (6), art. 330
339. **Juerges, N.**, Hagemann, N., Bartke, S. (2018):
A tool to analyse instruments for soil governance: the REEL-framework
J. Environ. Pol. Plan. **20** (5), 617 - 631

340. **Juerges, N., Hansjürgens, B.** (2018):
Soil governance in the transition towards a sustainable bioeconomy – A review
J. Clean Prod. **170**, 1628 - 1639
341. **Junge, K.M., Leppert, B., Jahreis, S., Wissenbach, D.K., Feltens, R., Grützmann, K., Thürmann, L., Bauer, T., Ishaque, N., Schick, M., Bewerunge-Hudler, M., Röder, S., Bauer, M., Schulz, A., Borte, M., Landgraf, K., Körner, A., Kiess, W., von Bergen, M., Stangl, G.I., Trump, S., Eils, R., Polte, T., Lehmann, I.** (2018):
MEST mediates the impact of prenatal bisphenol A exposure on long-term body weight development
Clin. Epigenetics **10**, art. 58
342. Jurado, A., Borges, A.V., **Pujades, E.**, Briers, P., Nikolenko, O., Dassargues, A., Brouyère, S. (2018):
Dynamics of greenhouse gases in the river–groundwater interface in a gaining river stretch (Triffoy catchment, Belgium)
Hydrogeol. J. **26** (8), 2739 - 2751
343. Jurado, A., Borges, A.V., Pujades, E., Hakoun, V., Otten, J., **Knöller, K.**, Brouyère, S. (2018):
Occurrence of greenhouse gases in the aquifers of the Walloon Region (Belgium)
Sci. Total Environ. **619**, 1579 - 1588
344. Jyväsjärvi, J., **Virtanen, R.**, Ilmonen, J., Paasivirta, L., Muotka, T. (2018):
Identifying taxonomic and functional surrogates for spring biodiversity conservation
Conserv. Biol. **32** (4), 883 - 893
345. **Kabisch, N., Haase, D.**, Elmquist, T., McPhearson, T. (2018):
Cities matter: workspaces in ecosystem-service assessments with decision-support tools in the context of urban systems
Bioscience **68** (3), 164 - 166
346. **Kabisch, S., Koch, F., Rink, D.** (2018):
Urbane Transformationen unter dem Leitbild der Nachhaltigkeit. Urban transformations towards sustainability
Geographische Rundschau **70** (6), 4 - 9
347. **Kaestner, M., Nowak, K., Brock, A.L., Miltner, A., Schaeffer, A., Trapp, S.** (2018):
Classification and modelling of non-extractable residues (NER) formation from pesticides in soil
Abstr. Paper Am. Chem. Soc. **256**, 161-AGRO

348. **Kahl, S., Kleinstuber, S., Nivala, J., van Afferden, M., Reemtsma, T.** (2018): Emerging biodegradation of the previously persistent artificial sweetener acesulfame in biological wastewater treatment
Environ. Sci. Technol. **55** (5), 2717 - 2725
349. **Kaim, A., Cord, A.F., Volk, M.** (2018): A review of multi-criteria optimization techniques for agricultural land use allocation
Environ. Modell. Softw. **105** , 79 - 93
350. **Karakoç, C., Radchuk, V., Harms, H., Chatzinotas, A.** (2018): Interactions between predation and disturbances shape prey communities
Sci. Rep. **8** , art. 2968
351. Karaoz, U., Couradeau, E., **Nunes da Rocha, U.**, Lim, H.-C., Northen, T., Garcia-Pichel, F., Brodie, E.L. (2018): Large blooms of *Bacillales* (*Firmicutes*) underlie the response to wetting of cyanobacterial biocrusts at various stages of maturity
mBio **9** (2), e01366-16
352. Karpov, M., **Seiwert, B.**, Mordehay, V., **Reemtsma, T.**, Polubesova, T., Chefetz, B. (2018): Transformation of oxytetracycline by redox-active Fe(III)- and Mn(IV)-containing minerals: Processes and mechanisms
Water Res. **145** , 136 - 145
353. **Karthe, D.** (2018): Environmental changes in Central and East Asian drylands and their effects on major river-lake systems
Quat. Int. **475** , 91 - 100
354. **Karthe, D.**, Chifflard, P., Büche, T. (2018): Hydrogeography – linking water resources and their management to physical and anthropogenic catchment processes. Editorial
ERDE **149** (2-3), 57 - 63
355. Karwautz, C., Kus, G., Stöckl, M., **Neu, T.R.**, Lueders, T. (2018): Microbial megacities fueled by methane oxidation in a mineral spring cave
ISME J. **12** , 87 - 100

356. Kase, R., Javurkova, B., Simon, E., Swart, K., Buchinger, S., Könemann, S., **Escher, B.I.**, Carere, M., Dulio, V., Ait-Aissa, S., Hollert, H., Valsecchi, S., Polesello, S., Behnisch, P., Di Paolo, C., Olbrich, D., Sychrova, E., Gundlach, M., **Schlichting, R.**, Leborgne, L., Clara, M., Scheffknecht, C., Marneffe, Y., Chalon, C., Tusil, P., Soldan, P., von Danwitz, B., Schwaiger, J., Moran Palao, A., Bersani, F., Perceval, O., Kienle, C., Vermeirssen, E., Hilscherova, K., Reifferscheid, G., Werner, I. (2018): Screening and risk management solutions for steroidal estrogens in surface and wastewater
Trac-Trends Anal. Chem. **102**, 343 - 358
357. Kaufmann, G., Romanov, D., **Tippelt, T.**, Vienken, T., Werban, U., Dietrich, P., Mai, F., Börner, F. (2018): Mapping and modelling of collapse sinkholes in soluble rock: The Münsterdorf site, northern Germany
J. Appl. Geophys. **154**, 64 - 80
358. **Kaus, A., Büttner, O., Karthe, D., Schäffer, M., Borchardt, D.** (2018): Migration and movement profiles of a potadromous fish (*Brachymystax lenok* Pallas 1773) in a highly connected river system (Mongolia)
Ecol. Freshw. Fish **27** (3), 752 - 766
359. **Keller, A.H., Kleinstuber, S., Vogt, C.** (2018): Correction to: Anaerobic benzene mineralization by nitrate-reducing and sulfate-reducing microbial consortia enriched from the same site: comparison of community composition and degradation characteristics (vol 75, pg 941, 2017)
Microb. Ecol. **75** (4), 954 - 954
360. **Keller, A.H., Kleinstuber, S., Vogt, C.** (2018): Anaerobic benzene mineralization by nitrate-reducing and sulfate-reducing microbial consortia enriched from the same site: comparison of community composition and degradation characteristics
Microb. Ecol. **75** (4), 941 - 953
361. Keller, M., **Klös, M.**, Rohde, K., Krüger, J., Kurze, T., Dietrich, A., Schön, M.R., Gärtner, D., Lohmann, T., Dreßler, M., Stumvoll, M., Blüher, M., Kovacs, P., Böttcher, Y. (2018): DNA methylation of *SSPN* is linked to adipose tissue distribution and glucose metabolism
Faseb J. **32** (12), 6898 - 6910

362. Keller, T., Hohmann, C., Standl, M., Wijga, A.H., Gehring, U., Melén, E., Almqvist, C., Lau, S., Eller, E., Wahn, U., Christiansen, E.S., von Berg, A., Heinrich, J., **Lehmann, I.**, Maier, D., Postma, D.S., Antó, J.M., Bousquet, J., Keil, T., Roll, S. (2018):
The sex-shift in single disease and multimorbid asthma and rhinitis during puberty - a study by MeDALL
Allergy **73** (3), 602 - 614
363. Khalil, A.B., Sivakumar, N., **Arslan, M.**, Saleem, H., Qarawi, S. (2018):
Insights into *Brevibacillus borstelensis* AK1 through whole genome sequencing: A thermophilic bacterium isolated from a hot spring in Saudi Arabia
Biomed Res. Int. **2018**, art. 5862437
364. Khalil, A., Sivakumar, N., **Arslan, M.**, Qarawi, S. (2018):
Novel *Anoxybacillus flavithermus* AK1: a thermophile isolated from a hot spring in Saudi Arabia
Arab. J. Sci. Eng. **43** (1), 73 - 81
365. Khan, A.M., **Wick, L.Y.**, **Thullner, M.** (2018):
Applying the Rayleigh approach for stable isotope-based analysis of VOC biodegradation in diffusion-dominated systems
Environ. Sci. Technol. **52** (14), 7785 - 7795
366. Khanamiri, H.H., Berg, C.F., Slotte, P.A., **Schlüter, S.**, Torsæter, O. (2018):
Description of free energy for immiscible two-fluid flow in porous media by integral geometry and thermodynamics
Water Resour. Res. **54** (11), 9045 - 9059
367. Kiese, R., Fersch, B., **Baessler, C.**, Brosy, C., Butterbach-Bahl, K., Chwala, C., Dannenmann, M., Fu, J., Gasche, R., Grote, R., Jahn, C., Klatt, J., Kunstmann, H., Mauder, M., **Rödiger, T.**, Smiatek, G., Soltani, M., Steinbrecher, R., Völksch, I., Werhahn, J., Wolf, B., Zeeman, M., Schmid, H.P. (2018):
The TERENO Pre-Alpine Observatory: Integrating meteorological, hydrological, and biogeochemical measurements and modeling
Vadose Zone J. **17** (1), art. 180060

368. Kim, H.J., Rosa, I.M.D., Alkemade, R., Leadley, P., Hurt, G., Popp, A., van Vuuren, D.P., Anthoni, P., Arneth, A., Baisero, D., Caton, E., Chaplin-Kramer, R., Chini, L., De Palma, A., Di Fulvio, F., Di Marco, M., Espinoza, F., Ferrier, S., Fujimori, S., Gonzalez, R.E., Gueguen, M., Guerra, C., Harfoot, M., Harwood, T.D., Hasegawa, T., Haverd, V., Havlik, P., Hellweg, S., Hill, S.L.L., Hirata, A., Hoskins, A.J., Janse, J.H., Jetz, W., Johnson, J.A., Krause, A., Leclère, D., Martins, I.S., Matsui, T., Merow, C., Obersteiner, M., Ohashi, H., Poulter, B., Purvis, A., Quesada, B., Rondinini, C., Schipper, A.M., Sharp, R., Takahashi, K., Thuiller, W., **Titeux, N.**, Visconti, P., Ware, C., Wolf, F., Pereira, H.M. (2018): A protocol for an intercomparison of biodiversity and ecosystem services models using harmonized land-use and climate scenarios
Geosci. Model Dev. **11**, 4537 - 4562
369. Kiontke, A., **Holzer, F.**, Belder, D., Birkemeyer, C. (2018): The requirements for low-temperature plasma ionization support miniaturization of the ion source
Anal. Bioanal. Chem. **410** (16), 3715 - 3722
370. Kissling, W.D., Ahumada, J.A., Bowser, A., Fernandez, M., Fernández, N., García, E.A., Guralnick, R.P., Isaac, N.J.B., Kelling, S., Los, W., McRae, L., **Mihoub, J.-B.**, Obst, M., Santamaria, M., Skidmore, A.K., Williams, K.J., Agosti, D., Amariles, D., Arvanitidis, C., Bastin, L., De Leo, F., Egloff, W., Elith, J., Hoborn, D., Martin, D., Pereira, H.M., Pesole, G., Peterseil, J., Saarenmaa, H., Schigel, D., **Schmeller, D.S.**, Segata, N., Turak, E., Uhlir, P.F., Wee, B., Hardisty, A.R. (2018): Building essential biodiversity variables (EBVs) of species distribution and abundance at a global scale
Biol. Rev. **93** (1), 600 - 625
371. **Klähn, S.**, Bolay, P., Wright, P.R., Atilho, R.M., Brewer, K.I., Hagemann, M., Breaker, R.R., Hess, W.R. (2018): A glutamine riboswitch is a key element for the regulation of glutamine synthetase in cyanobacteria
Nucleic Acids Res. **46** (19), 10082 - 10094
372. **Klassert, C., Sigel, K., Klauer, B., Gawel, E.** (2018): Increasing block tariffs in an arid developing country: A discrete/continuous choice model of residential water demand in Jordan
Water **10** (3), art. 248
373. **Kleemann, J.**, Celio, E., Fürst, C. (2018): Validation approaches of an expert-based Bayesian Belief OD Network in northern Ghana, West Africa (Reprinted from Ecological Modelling vol 365, pg 10, 2017)
Ecol. Model. **371** , 101 - 118

374. Kleijn, D., Biesmeijer, J., Dupont, Y.L., Nielsen, A., Potts, S.G., **Settele, J.** (2018): Bee conservation: inclusive solutions
Science **360** (6387), 389 - 390
375. Klotzbücher, A., Klotzbücher, T., Jahn, R., Xuan, L.D., Cuong, L.Q., Chien, H.V., Hinrichs, M., Sann, C., **Vetterlein, D.** (2018): Effects of Si fertilization on Si in soil solution, Si uptake by rice, and resistance of rice to biotic stresses in Southern Vietnam
Paddy Water Environ. **16** (2), 243 - 252
376. Klotzbücher, T., Klotzbücher, A., Kaiser, K., **Vetterlein, D.**, Jahn, R., Mikutta, R. (2018): Variable silicon accumulation in plants affects terrestrial carbon cycling by controlling lignin synthesis
Glob. Change Biol. **24** (1), e183 - e189
377. Klotzbücher, T., Klotzbücher, A., **Merbach, I.**, Mikutta, R. (2018): Impact of agricultural practices on plant-available silicon
Geoderma **331** , 15 - 17
378. **Knapp, N., Fischer, R., Huth, A.** (2018): Linking lidar and forest modeling to assess biomass estimation across scales and disturbance states
Remote Sens. Environ. **205** , 199 - 209
379. **Knapp, N., Huth, A.**, Kugler, F., Papathanassiou, K., Condit, R., Hubbell, S.P., **Fischer, R.** (2018): Model-assisted estimation of tropical forest biomass change: a comparison of approaches
Remote Sens. **10** (5), art. 731
380. **Knecht, C.**, Balaban, C.L., Rodríguez, J.V., Ceccarelli, E.A., Guibert, E.E., Rosano, G.L. (2018): Proteome variation of the rat liver after static cold storage assayed in an *ex vivo* model
Cryobiology **85** , 47 - 55
381. **Knight, T.M.**, Ashman, T.-L., Bennett, J.M., Burns, J.H., **Passonneau, S.**, Steets, J.A. (2018): Reflections on, and visions for, the changing field of pollination ecology
Ecol. Lett. **21** (8), 1282 - 1295
382. **Knillmann, S., Orlinskiy, P., Kaske, O., Foit, K., Liess, M.** (2018): Indication of pesticide effects and recolonization in streams
Sci. Total Environ. **630** , 1619 - 1627

383. **Koch, C., Korth, B., Harnisch, F.** (2018):
Microbial ecology-based engineering of Microbial Electrochemical Technologies
Microb. Biotechnol. **11** (1), 22 - 38
384. **Koch, C., Müller, S.** (2018):
Personalized microbiome dynamics – Cytometric fingerprints for routine diagnostics
Mol. Asp. Med. **59**, 123 - 134
385. **Koch, F.** (2018):
Mainstreaming adaptation: a content analysis of political agendas in Colombian cities
Clim. Dev. **10** (2), 179 - 192
386. **Koch, F.** (2018):
Book review: Deppisch, Sonja (Hrsg.) (2017): Urban Regions Now & Tomorrow. Between vulnerability, resilience and transformation. Wiesbaden: Springer. 276 Seiten
Raumforschung und Raumordnung **76** (4), 363 - 365
387. **Koch, F., Bilke, L., Helbig, C., Schlink, U.** (2018):
Compact or cool? The impact of brownfield redevelopment on inner-city micro climate
Sust. Cities Soc. **38**, 31 - 41
388. **Koch, F., Kabisch, S., Krellenberg, K.** (2018):
A transformative turn towards sustainability in the context of urban-related studies? A systematic review from 1957 to 2016
Sustainability **10** (1), art. 58
389. **Koch, F., Krellenberg, K.** (2018):
How to contextualize SDG 11? Looking at indicators for sustainable urban development in Germany
ISPRS Int. Geo-Inf. **7** (12), art. 464
390. **Köck, W.** (2018):
Der Schutz des Wolfes und die Möglichkeiten der Entnahme in Deutschland – Status quo und Perspektiven
Nat. Recht **40** (12), 812 - 818
391. **Koebernick, N., Schlüter, S., Blaser, S.R.G.A., Vetterlein, D.** (2018):
Root-soil contact dynamics of *Vicia faba* in sand
Plant Soil **431** (1-2), 417 - 431
392. **Koedel, U.** (2018):
International conference on novel methods for subsurface characterization and monitoring: from theory to practice: NovCare 2017
Environ. Earth Sci. **77**, art. 649

393. Koellner, T., **Schröter, M.**, Schulp, C.J.E., Verburg, P.H. (2018):
Global flows of ecosystem services. Editorial
Ecosystem Services **31** (Part B), 229 - 230
394. Köhli, M., **Schrön, M.**, Schmidt, U. (2018):
Response functions for detectors in cosmic ray neutron sensing
Nucl. Instrum. Methods Phys. Res. A **902**, 184 - 189
395. **Kolditz, B.**, Dörhöfer, G., LaMoreaux, J., **Kolditz, O.** (2018):
Environmental earth sciences—most cited papers: 2015–2016. EES progress report 2017
Environ. Earth Sci. **77** (8), art. 298
396. Könemann, S., Kase, R., Simon, F., Swart, K., Buchinger, S., Schlüsener, M.,
Hollert, H., **Escher, B.I.**, Werner, I., Aït-Aïssa, S., Vermeirssen, E., Dulio,
V., Valsecchi, S., Polesello, S., Behnisch, P., Javurkova, B., Perceval, O., Di
Paolo, C., Olbrich, D., Sychrova, E., **Schlichting, R.**, Leborgne, L., Clara, M.,
Scheffknecht, C., Marneffe, Y., Chalon, C., Tušil, P., Soldà, P., von Danwitz, B.,
Schwaiger, J., San Martín Becares, M.I., Bersani, F., Hilscherová, K., Reifferscheid, G.,
Ternes, T., Carere, M. (2018):
Effect-based and chemical analytical methods to monitor estrogens under the European
Water Framework Directive
Trac-Trends Anal. Chem. **102**, 225 - 235
397. **Konieczna, M.**, **Olzog, M.**, Naether, D.J., Chrzanowski, Ł., **Heipieper, H.J.** (2018):
Membrane fatty acid composition and cell surface hydrophobicity of marine
hydrocarbonoclastic *Alcanivorax borkumensis* SK2 grown on diesel, biodiesel and
rapeseed oil as carbon sources
Molecules **23** (6), art. 1432
398. König, S., Worrlich, A., Banitz, T., Centler, F., Harms, H., Kästner, M., Miltner, A.,
, Wick, L.Y., Thullner, M., Frank, K. (2018):
Spatiotemporal disturbance characteristics determine functional stability and collapse risk
of simulated microbial ecosystems
Sci. Rep. **8**, art. 9488
399. König, S., Worrlich, A., Banitz, T., Harms, H., Kästner, M., Miltner, A., Wick, L.Y.,
, Frank, K., Thullner, M., Centler, F. (2018):
Functional resistance to recurrent spatially heterogeneous disturbances is facilitated by
increased activity of surviving bacteria in a virtual ecosystem
Front. Microbiol. **9**, art. 734

400. **Kopinke, F.-D., Georgi, A., Goss, K.-U.** (2018):
Comment on "Re-evaluation of the century-old Langmuir isotherm for modeling adsorption phenomena in solution", published by Azizian et al. [Chemical physics 513 (2018) 99–104]
Chem. Phys. **517**, 265 - 267
401. **Kopinke, F.-D., Georgi, A., Goss, K.-U.** (2018):
Comment on "Mistakes and inconsistencies regarding adsorption of contaminants from aqueous solutions: A critical review, published by Tran et al. [Water Research 12, 2017, 88-116]"
Water Res. **129**, 520 - 521
402. **Kopinke, F.-D., Georgi, A., Roland, U.** (2018):
Isotope fractionation in phase-transfer processes under thermodynamic and kinetic control – Implications for diffusive fractionation in aqueous solution
Sci. Total Environ. **610–611**, 495 - 502
403. Koponen, J., Winkens, K., Airaksinen, R., **Berger, U.**, Vestergren, R., Cousins, I.T., Karvonen, A.M., Pekkanen, J., Kiviranta, H. (2018):
Longitudinal trends of per- and polyfluoroalkyl substances in children's serum
Environ. Int. **121, Part 1**, 591 - 599
404. **Korell, L.**, Lang, B.R., Hensen, I., **Auge, H.**, Bruelheide, H. (2018):
Author Correction: Interactions count: plant origin, herbivory and disturbance jointly explain seedling recruitment and community structure
Sci. Rep. **8**, art. 4399
405. Korkmaz, A.G., Popov, I., Peisl, L., Codrea, M.C., Nahnsen, S., Steimle, A., Velic, A., Macek, B., **von Bergen, M.**, Bernhardt, J., Frick, J.S. (2018):
Proteome and phosphoproteome analysis of commensally induced dendritic cell maturation states
J. Proteomics **180**, 11 - 24
406. **Korte, K., Gawel, E.** (2018):
Räumliche Koordination im liberalisierten Strommarkt: angemessene Anreize für die Einspeisung. Spatial coordination of generation and network in a liberalised power market: adequate incentives for power feed-in
Wirtschaftsdienst - Zeitschrift für Wirtschaftspolitik **98** (1), 60 - 67
407. Kosak, L.A., **Brandt, T.**, Sigg, L., Behra, R. (2018):
Uptake and effects of cerium(III) and cerium oxide nanoparticles to *Chlamydomonas reinhardtii*
Aquat. Toxicol. **197**, 41 - 46

408. Kracke, F., **Lai, B.**, Yu, S., **Krömer, J.O.** (2018):
Balancing cellular redox metabolism in microbial electrosynthesis and electro
fermentation – A chance for metabolic engineering
Metab. Eng. **45**, 109 - 120
409. **Kraus, M.**, Holzer, F., Hoyer, C., **Trommler, U.**, **Kopinke, F.-D.**, **Roland, U.** (2018):
Chemical-free pest control by means of dielectric heating with radio waves: selective
heating
Chem. Eng. Technol. **41** (1), 116 - 123
410. **Kraus, M.**, **Trommler, U.**, **Holzer, F.**, **Kopinke, F.-D.**, **Roland, U.** (2018):
Competing adsorption of toluene and water on various zeolites
Chem. Eng. J. **351**, 356 - 363
411. **Krause, S.**, **Goss, K.-U.** (2018):
In vitro–in vivo extrapolation of hepatic metabolism for different scenarios - a toolbox
Chem. Res. Toxicol. **31** (11), 1195 - 1202
412. **Krause, S.**, **Goss, K.-U.** (2018):
The impact of desorption kinetics from albumin on hepatic extraction efficiency and
hepatic clearance: a model study
Arch. Toxicol. **92** (7), 2175 - 2182
413. **Krause, S.**, **Goss, K.U.** (2018):
Desorption kinetics of organic chemicals from albumin
Naunyn-Schmiedebergs Arch. Pharmacol. **391** (Suppl. 1), S45 - S45
414. **Krause, S.**, **Ulrich, N.**, **Goss, K.-U.** (2018):
Desorption kinetics of organic chemicals from albumin
Arch. Toxicol. **92** (3), 1065 - 1074
415. Kremer, P., Larondelle, N., Zhang, Y., Pasles, E., **Haase, D.** (2018):
Within-class and neighborhood effects on the relationship between composite urban
classes and surface temperature
Sustainability **10** (3), art. 645
416. **Krengel, F.**, Bernhofer, C., Chalov, S., Efimov, P., Efimova, L., Gorbachova, L.,
Habel, M., Helm, B., Kruhlov, I., Nabivyanets, Y., Osadcha, N., Osadchy, V.,
Pluntke, T., Reeh, T., Terskii, P., **Karthe, D.** (2018):
Challenges for transboundary river management in Eastern Europe – three case studies
ERDE **149** (2-3), 157 - 172

417. Kretzschmar, J., Böhme, P., Liebetrau, J., Mertig, M., **Harnisch, F.** (2018): Microbial electrochemical sensors for anaerobic digestion process control – performance of electroactive biofilms under real conditions
Chem. Eng. Technol. **41** (4), 687 - 695
418. Krieg, T., Phan, L.M.P., Wood, J.A., Sydow, A., Vassilev, I., **Krömer, J.O.**, Mangold, K.-M., Holtmann, D. (2018): Characterization of a membrane-separated and a membrane-less electrobioreactor for bioelectrochemical syntheses
Biotechnol. Bioeng. **115** (7), 1705 - 1716
419. Krohn, S., Zeller, K., Böhm, S., **Chatzinotas, A.**, **Harms, H.**, Hartmann, I., **Heidtmann, A.**, Herber, A., Kaiser, T., Treuheit, M., Hoffmeister, A., Berg, T., Engelmann, C. (2018): Molecular quantification and differentiation of *Candida* species in biological specimens of patients with liver cirrhosis
PLOS One **13** (6), e0197319
420. Krueger, J., Heitkötter, J., Leue, M., **Schlüter, S.**, **Vogel, H.-J.**, Marschner, B., Bachmann, J. (2018): Coupling of interfacial soil properties and bio-hydrological processes: The flow cell concept
Ecohydrology **11** (6), art. e2024
421. Krug, H.F., Bohmer, N., **Kühnel, D.**, Marquardt, C., Nau, K., Steinbach, C. (2018): The DaNa^{2,0} Knowledge Base Nanomaterials—An important measure accompanying nanomaterials development
Nanomaterials **8** (4), art. 204
422. Kruse, S., Goris, T., Westermann, M., **Adrian, L.**, Diekert, G. (2018): Hydrogen production by *Sulfurospirillum* species enables syntrophic interactions of Epsilonproteobacteria
Nat. Commun. **9**, art. 4872
423. Kučerík, J., Tokarski, D., Demyan, M.S., **Merbach, I.**, Siewert, C. (2018): Linking soil organic matter thermal stability with contents of clay, bound water, organic carbon and nitrogen
Geoderma **316** , 38 - 46
424. **Kuhlicke, C.** (2018): Multiple Hochwassererfahrung und die Resilienz von Haushalten. Multiple flood experience and resilience of households
Geographische Rundschau **70** (7/8), 26 - 29

425. **Kuhn, S.**, Splith, K., Ballschuh, C., Feldbrügge, L., Krenzien, F., Atanasov, G., Benzing, C., Hau, H.-M., Engelmann, C., Berg, T., Schulte am Esch, J., Pratschke, J., Robson, S.C., Schmelzle, M. (2018):
Mononuclear-cell-derived microparticles attenuate endothelial inflammation by transfer of miR-142-3p in a CD39 dependent manner
Purinergic Signal. **14** (4), 423 - 432
426. **Kühnel, D.**, Krug, H.F., Jemec Kokalj, A. (2018):
Environmental impacts of engineered nanomaterials—imbalances in the safety assessment of selected nanomaterials
Materials **11** (8), art. 1444
427. **Kuppardt, A., Fester, T., Härtig, C., Chatzinotas, A.** (2018):
Rhizosphere protists change metabolite profiles in *Zea mays*
Front. Microbiol. **9** , art. 857
428. Lachmuth, S., Henrichmann, C., **Horn, J.**, Pagel, J., Schurr, F.M. (2018):
Neighbourhood effects on plant reproduction: An experimental–analytical framework and its application to the invasive *Senecio inaequidens*
J. Ecol. **106** (2), 761 - 773
429. Laloo, A.E., Wei, J., Wang, D., Narayanasamy, S., Vanwonterghem, I., Waite, D., Steen, J., Kaysen, A., **Heintz-Buschart, A.**, Wang, Q., Schulz, B., Nouwens, A., Wilmes, P., Hugenholtz, P., Yuan, Z., Bond, P.L. (2018):
Mechanisms of persistence of the ammonia-oxidizing bacteria *Nitrosomonas* to the biocide free nitrous acid
Environ. Sci. Technol. **52** (9), 5386 - 5397
430. **Lambrecht, J., Schattenberg, F., Harms, H., Müller, S.** (2018):
Characterizing microbiome dynamics – flow cytometry based workflows from pure cultures to natural communities
J. Vis. Exp. (137), e58033
431. Landuyt, D., Perring, M.P., Seidl, R., **Taubert, F.**, Verbeeck, H., Verheyen, K. (2018):
Modelling understorey dynamics in temperate forests under global change–Challenges and perspectives
Perspect. Plant Ecol. Evol. Syst. **31** , 44 - 54
432. Langerwisch, F., **Václavík, T.**, von Bloh, W., Vetter, T., Thonicke, K. (2018):
Combined effects of climate and land-use change on the provision of ecosystem services in rice agro-ecosystems
Environ. Res. Lett. **13** (1), art. 015003

433. **Larisch, W., Goss, K.-U.** (2018):
Uptake, distribution and elimination of chemicals in fish – Which physiological parameters are the most relevant for toxicokinetics?
Chemosphere **210**, 1108 - 1114
434. **Larisch, W., Goss, K.-U.** (2018):
Modelling oral up-take of hydrophobic and super-hydrophobic chemicals in fish
Environ. Sci.-Proc. Imp. **20** (1), 98 - 104
435. **Larras, F., Billoir, E., Baillard, V., Siberchicot, A., Scholz, S., Wubet, T., Tarkka, M., Schmitt-Jansen, M., Delignette-Muller, M.-L.** (2018):
DRomics: A turnkey tool to support the use of the dose–response framework for omics data in ecological risk assessment
Environ. Sci. Technol. **52** (24), 14461 - 14468
436. Laso-Pérez, R., Krukenberg, V., **Musat, F.**, Wegener, G. (2018):
Establishing anaerobic hydrocarbon-degrading enrichment cultures of microorganisms under strictly anoxic conditions
Nat. Protoc. **13** (6), 1310 - 1330
437. **Laube, G., Schmidt, C., Fleckenstein, J.H.** (2018):
The systematic effect of streambed conductivity heterogeneity on hyporheic flux and residence time
Adv. Water Resour. **122**, 60 - 69
438. Lauer, M., Hansen, J.K., Lamers, P., **Thrän, D.** (2018):
Making money from waste: The economic viability of producing biogas and biomethane in the Idaho dairy industry
Appl. Energy **222**, 621 - 636
439. Lauer, M., **Thrän, D.** (2018):
Flexible biogas in future energy systems—sleeping beauty for a cheaper power generation
Energies **11** (4), art. 761
440. **Lausch, A., Bastian, O., Klotz, S., Leitão, P.J., Jung, A., Rocchini, D., Schaeppman, M.E., Skidmore, A.K., Tischendorf, L., Knapp, S.** (2018):
Understanding and assessing vegetation health by in situ species and remote-sensing approaches
Methods Ecol. Evol. **9** (8), 1799 - 1809

441. **Lausch, A.**, Borg, E., **Bumberger, J.**, Dietrich, P., Heurich, M., **Huth, A.**, Jung, A., **Klenke, R.**, Knapp, S., Mollenhauer, H., Paasche, H., Paulheim, H., **Pause, M.**, Schweitzer, C., Schmulius, C., Settele, J., Skidmore, A.K., Wegmann, M., **Zacharias, S.**, Kirsten, T., Schaepman, M.E. (2018):
Understanding forest health with remote sensing, Part III: Requirements for a scalable multi-source forest health monitoring network based on data science approaches
Remote Sens. **10** (7), art. 1120
442. Lawrence, J.R., Winkler, M., **Neu, T.R.** (2018):
Multi-parameter laser imaging reveals complex microscale biofilm matrix in a thick (4,000 µm) aerobic methanol oxidizing community
Front. Microbiol. **9**, art. 2186
443. Lechner, U., **Türkowsky, D.**, Dinh, T.T.H., **Al-Fathi, H.**, Schwoch, S., Franke, S., Gerlach, M.-S., Koch, M., **von Bergen, M.**, **Jehmlich, N.**, Dang, T.C.H. (2018):
Desulfitobacterium contributes to the microbial transformation of 2,4,5-T by methanogenic enrichment cultures from a Vietnamese active landfill
Microb. Biotechnol. **11** (6), 1137 - 1156
444. Legradi, J.B., Di Paolo, C., Kraak, M.H.S., van der Geest, H.G., Schymanski, E.L., Williams, A.J., Dingemans, M.M.L., **Massei, R.**, **Brack, W.**, Cousin, X., Begout, M.-L., van der Oost, R., Carion, A., Suarez-Ulloa, V., Silvestre, F., **Escher, B.I.**, Engwall, M., Nilén, G., Keiter, S.H., Pollet, D., Waldmann, P., Kienle, C., Werner, I., Haigis, A.-C., Knapen, D., Vergauwen, L., Spehr, M., Schulz, W., **Busch, W.**, **Leuthold, D.**, **Scholz, S.**, vom Berg, C.M., Basu, N., Murphy, C.A., Lampert, A., Kuckelkorn, J., Grummt, T., Hollert, H. (2018):
An ecotoxicological view on neurotoxicity assessment
Environ. Sci. Eur. **30**, art. 46
445. Lehmann, K., Schaefer, S., Babin, D., **Köhne, J.M.**, **Schlüter, S.**, Smalla, K., **Vogel, H.-J.**, Totsche, K.U. (2018):
Selective transport and retention of organic matter and bacteria shapes initial pedogenesis in artificial soil - A two-layer column study
Geoderma **325**, 37 - 48
446. **Lehmann, P.**, Sijm, J., **Gawel, E.**, **Strunz, S.**, Chewpreecha, U., Mercure, J.-F., Pollitt, H. (2018):
Addressing multiple externalities from electricity generation: a case for EU renewable energy policy beyond 2020?
Environmental Economics and Policy Studies
447. **Lehmann, P.**, Söderholm, P. (2018):
Can technology-specific deployment policies be cost-effective? The case of renewable energy support schemes
Environ. Resour. Econ. **71** (2), 475 - 505

448. Lengyel, S., Kosztyi, B., **Schmeller, D.S.**, Henry, P.-Y., Kotarac, M., Lin, Y.-P., **Henle, K.** (2018):
Evaluating and benchmarking biodiversity monitoring: Metadata-based indicators for sampling design, sampling effort and data analysis
Ecol. Indic. **85**, 624 - 633
449. **Lepenies, R., Hüesker, F., Beck, S.**, Brugnach, M. (2018):
Discovering the political implications of coproduction in water governance
Water **10** (10), art. 1475
450. **Leppert, B., Junge, K.M., Röder, S.**, Borte, M., Stangl, G.I., Wright, R.J., Hilbert, A., **Lehmann, I., Trump, S.** (2018):
Early maternal perceived stress and children's BMI: longitudinal impact and influencing factors
BMC Public Health **18**, art. 1211
451. Leusch, F.D.L., Neale, P.A., Arnal, C., Aneck-Hahn, N.H., Balaguer, P., Bruchet, A., **Escher, B.I.**, Esperanza, M., Grimaldi, M., Leroy, G., Scheurer, M., **Schlüting, R.**, Schriks, M., Hebert, A. (2018):
Analysis of endocrine activity in drinking water, surface water and treated wastewater from six countries
Water Res. **139**, 10 - 18
452. **Leuther, F., Weller, U., Wallach, R., Vogel, H.-J.** (2018):
Quantitative analysis of wetting front instabilities in soil caused by treated waste water irrigation
Geoderma **319**, 132 - 141
453. Li, S., Shakoor, A., **Wubet, T.**, Zhang, N., Liang, Y., Ma, K. (2018):
Fine-scale variations of fungal community in a heterogeneous grassland in Inner Mongolia: Effects of the plant community and edaphic parameters
Soil Biol. Biochem. **122**, 104 - 110
454. Li, T., **Schlüter, S.**, Dragila, M.I., Wildenschild, D. (2018):
An improved method for estimating capillary pressure from 3D microtomography images and its application to the study of disconnected nonwetting phase
Adv. Water Resour. **114**, 249 - 260
455. Li, Y., Kocot, K.M., Tassia, M.G., Cannon, J.T., **Bernt, M.**, Halanych, K.M. (2018):
Mitogenomics reveals a novel genetic code in Hemichordata
Genome Biol. Evol. **11** (1), 29 - 40

456. Li, Y., Shipley, B., Price, J.N., de L. Dantas, V., Tamme, R., Westoby, M., Siefert, A., Schamp, B.S., Spasojevic, M.J., Jung, V., Laughlin, D.C., Richardson, S.J., Le Bagousse-Pinguet, Y., Schöb, C., Gazol, A., Prentice, H.C., Gross, N., Overton, J., Cianciaruso, M.V., Louault, F., Kamiyama, C., Nakashizuka, T., Hikosaka, K., Sasaki, T., Katabuchi, M., Frenette Dussault, C., Gaucherand, S., Chen, N., **Vandewalle, M.**, Batalha, M.A. (2018): Habitat filtering determines the functional niche occupancy of plant communities worldwide
J. Ecol. **106** (3), 1001 - 1009
457. **Lian, S., Nikolausz, M., Nijenhuis, I., Leite, A.F., Richnow, H.H.** (2018): Biotransformation and inhibition effects of hexachlorocyclohexanes during biogas production from contaminated biomass characterized by isotope fractionation concepts
Bioresour. Technol. **250** , 683 - 690
458. **Liebelt, V., Bartke, S., Schwarz, N.** (2018): Hedonic pricing analysis of the influence of urban green spaces onto residential prices: the case of Leipzig, Germany
Eur. Plan. Stud. **26** (1), 133 - 157
459. **Liebelt, V., Bartke, S., Schwarz, N.** (2018): Revealing preferences for urban green spaces: a scale-sensitive hedonic pricing analysis for the city of Leipzig
Ecol. Econ. **146** , 536 - 548
460. **Lienhoop, N.** (2018): Acceptance of wind energy and the role of financial and procedural participation: An investigation with focus groups and choice experiments
Energy Policy **118** , 97 - 105
461. **Lienhoop, N., Schröter-Schlaack, C.** (2018): Involving multiple actors in ecosystem service governance: Exploring the role of stated preference valuation
Ecosystem Services **34** (Part B), 181 - 188
462. Limasset, E., Pizzol, L., Merly, C., Gatchett, A.M., Le Guern, C., Martinát, S., Klusáček, P., **Bartke, S.** (2018): Points of attention in designing tools for regional brownfield prioritization
Sci. Total Environ. **622–623** , 997 - 1008
463. Lin, Y.-P., Lin, W.-C., Anthony, J., Ding, T.-S., **Mihoub, J.-B., Henle, K., Schmeller, D.S.** (2018): Assessing uncertainty and performance of ensemble conservation planning strategies
Landsc. Urban Plan. **169** , 57 - 69

464. **Liu, J., Wu, L., Kümmel, S., Yao, J., Schaefer, T., Herrmann, H., Richnow, H.-H.** (2018): Carbon and hydrogen stable isotope analysis for characterizing the chemical degradation of tributyl phosphate
Chemosphere **212**, 133 - 142
465. **Liu, Z., Cichocki, N., Bonk, F., Günther, S., Schattenberg, F., Harms, H., Centler, F., Müller, S.** (2018): Ecological stability properties of microbial communities assessed by flow cytometry
mSphere **3** (1), e00564-17
466. Liukkonen, L., **Ayllón, D.**, Kunnasranta, M., Niemi, M., Nabe-Nielsen, J., **Grimm, V.**, Nyman, A.-M. (2018): Modelling movements of Saimaa ringed seals using an individual-based approach
Ecol. Model. **368**, 321 - 335
467. **Lu, R., Nagel, T., Shao, H., Kolditz, O., Shao, H.** (2018): Modeling of dissolution-induced permeability evolution of a granite fracture under crustal conditions
J. Geophys. Res.-Solid Earth **123** (7), 5609 - 5627
468. **Lucas, M.**, Balbín-Suárez, A., Smalla, K., **Vetterlein, D.** (2018): Root growth, function and rhizosphere microbiome analyses show local rather than systemic effects in apple plant response to replant disease soil
PLOS One **13** (10), e0204922
469. **Ludwig, G.** (2018): Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **93** (1), 41 - 42
470. **Ludwig, G.** (2018): Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **93** (2), 91 - 92
471. **Ludwig, G.** (2018): Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **93** (12), 592 - 593
472. **Ludwig, G., Möckel, S.** (2018): Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **93** (9/10), 479 - 480

473. Luo, J., Luo, Z., Xie, J., Xia, D., Huang, W., **Shao, H.**, Xiang, W., Rohn, J. (2018): Investigation of shallow geothermal potentials for different types of ground source heat pump systems (GSHP) of Wuhan city in China
Renew. Energy **118**, 230 - 244
474. **Lutz, S.R., Krieg, R., Müller, C., Zink, M., Knöller, K., Samaniego, L., Merz, R.** (2018): Spatial patterns of water age: using young water fractions to improve the characterization of transit times in contrasting catchments
Water Resour. Res. **54** (7), 4767 - 4784
475. **Lutz, S.R.**, Popp, A., van Emmerik, T., Gleeson, T., Kalaugher, L., Möbius, K., Mudde, T., Walton, B., Hut, R., Savenije, H., Slater, L.J., Solcerova, A., Stoof, C.R., **Zink, M.** (2018): HESS Opinions: Science in today's media landscape – challenges and lessons from hydrologists and journalists
Hydrol. Earth Syst. Sci. **22** (7), 3589 - 3599
476. **Lv, Z.**, Jiang, J.H., Liebetrau, J., **Richnow, H.H.**, Fischer, A., Ács, N., **Nikolausz, M.** (2018): Ammonium chloride vs urea-induced ammonia inhibition of the biogas process assessed by stable isotope analysis
Chem. Eng. Technol. **41** (4), 671 - 679
477. Lyam, P.T., Duque-Lazo, J., **Durka, W.**, Hauenschild, F., Schnitzler, J., Michalak, I., Ogundipe, O.T., Muellner-Riehl, A.N. (2018): Genetic diversity and distribution of *Senegalia senegal* (L.) Britton under climate change scenarios in West Africa
PLOS One **13** (4), e0194726
478. Ma, G., Yu, H., Wei, X., Chen, J., Lin, H., **Schüürmann, G.** (2018): Computational insight into the activation mechanism of carcinogenic *N'*-nitrosonornicotine (NNN) catalyzed by cytochrome P450
Environ. Sci. Technol. **52** (20), 11838 - 11847
479. Mader, M., Roberts, A.M., Porst, D., **Schmidt, C.**, **Trauth, N.**, van Geldern, R., Barth, J.A.C. (2018): River recharge versus O₂ supply from the unsaturated zone in shallow riparian groundwater: A case study from the Selke River (Germany)
Sci. Total Environ. **634**, 374 - 381
480. **Madi, R., de Rooij, G.H.**, Mielenz, H., **Mai, J.** (2018): Parametric soil water retention models: a critical evaluation of expressions for the full moisture range
Hydrol. Earth Syst. Sci. **22** (2), 1193 - 1219

481. Magliocca, N.R., Ellis, E.C., Allington, G.R.H., de Bremond, A., Dell'Angelo, J., Mertz, O., Messerli, P., Meyfroidt, P., **Seppelt, R.**, Verburg, P.H. (2018): Closing global knowledge gaps: Producing generalized knowledge from case studies of social-ecological systems
Glob. Environ. Change **50**, 1 - 14
482. Majer, S., Wurster, S., Moosmann, D., Ladu, L., Sumfleth, B., **Thrän, D.** (2018): Gaps and research demand for sustainability certification and standardisation in a sustainable bio-based economy in the EU
Sustainability **10** (7), art. 2455
483. Makkonen, J., Jussila, J., Panteleit, J., **Keller, N.S.**, Schrimpf, A., Theissing, K., Kortet, R., Martín-Torrijos, L., Sandoval-Sierra, J.V., Diéguez-Uribeondo, J., Kokko, H. (2018): MtDNA allows the sensitive detection and haplotyping of the crayfish plague disease agent *Aphanomyces astaci* showing clues about its origin and migration
Parasitology **145** (9), 1210 - 1218
484. Malabirade, A., Habier, J., **Heintz-Buschart, A.**, May, P., Godet, J., Halder, R., Etheridge, A., Galas, D., Wilmes, P., Fritz, J.V. (2018): The RNA complement of outer membrane vesicles from *Salmonella enterica* serovar Typhimurium under distinct culture conditions
Front. Microbiol. **9**, art. 2015
485. Malik, A.A., Puissant, J., Buckeridge, K.M., Goodall, T., **Jehmlich, N.**, Chowdhury, S., Gweon, H.S., Peyton, J.M., Mason, K.E., van Agtmaal, M., Blaud, A., Clark, I.A., Whitaker, J., Pywell, R.F., Ostle, N., Gleixner, G., Griffiths, R.I. (2018): Land use driven change in soil pH affects microbial carbon cycling processes
Nat. Commun. **9**, art. 3591
486. Maliniemi, T., Kapfer, J., Saccone, P., Skog, A., **Virtanen, R.** (2018): Long-term vegetation changes of treeless heath communities in northern Fennoscandia: Links to climate change trends and reindeer grazing
J. Veg. Sci. **29** (3), 469 - 479
487. Marañón-Jiménez, S., Van den Bulcke, J., **Piayda, A.**, Van Acker, J., **Cuntz, M.**, **Rebmann, C.**, Steppe, K. (2018): X-ray computed microtomography characterizes the wound effect that causes sap flow underestimation by thermal dissipation sensors
Tree Physiol. **38** (2), 287 - 301
488. Martins, V.F., dos Santos Seger, G.D., **Wiegand, T.**, Maës dos Santos, F.A. (2018): Phylogeny contributes more than site characteristics and traits to the spatial distribution pattern of tropical tree populations
Oikos **127** (9), 1368 - 1379

489. **Marx, A., Kumar, R., Thober, S., Rakovec, O., Wanders, N., Zink, M., Wood, E.F., Pan, M., Sheffield, J., Samaniego, L.** (2018): Climate change alters low flows in Europe under global warming of 1.5, 2, and 3 °C
Hydrol. Earth Syst. Sci. **22** (2), 1017 - 1032
490. **Massei, R., Busch, W., Wolschke, H., Schinkel, L., Bitsch, M., Schulze, T., Krauss, M., Brack, W.** (2018): Screening of pesticide and biocide patterns as risk drivers in sediments of major European river mouths: ubiquitous or river basin-specific contamination?
Environ. Sci. Technol. **52** (4), 2251 - 2260
491. **Massei, R., Byers, H., Beckers, L.-M., Prothmann, J., Brack, W., Schulze, T., Krauss, M.** (2018): A sediment extraction and cleanup method for wide-scope multitarget screening by liquid chromatography–high-resolution mass spectrometry
Anal. Bioanal. Chem. **410** (1), 177 - 188
492. Mathey, J., Arndt, T., Banse, J., **Rink, D.** (2018): Public perception of spontaneous vegetation on brownfields in urban areas—Results from surveys in Dresden and Leipzig (Germany)
Urban For. Urban Green. **29**, 384 - 392
493. May, J.C., Jurneczko, E., Stow, S.M., **Kratochvil, I., Kalkhof, S.**, McLean, J.A. (2018): Conformational landscapes of ubiquitin, cytochrome c, and myoglobin: Uniform field ion mobility measurements in helium and nitrogen drift gas
Int. J. Mass Spectrom. **427**, 79 - 90
494. McClure, J.E., Armstrong, R.T., Berrill, M.A., **Schlüter, S.**, Berg, S., Gray, W.G., Miller, C.T. (2018): Geometric state function for two-fluid flow in porous media
Phys. Rev. Fluids **3** (8), art. 084306
495. McCullough, C.D., **Schultze, M.** (2018): Risks and rewards of pit lakes
AusIMM Bulletin (December), 1 - 6
496. McCullough, C.D., **Schultze, M.** (2018): Engineered river flow-through to improve mine pit lake and river values
Sci. Total Environ. **640–641**, 217 - 231
497. McDermott, C.I., Fraser-Harris, A., Sauter, M., Couples, G.D., Edlmann, K., **Kolditz, O.**, Lightbody, A., Somerville, J., **Wang, W.** (2018): New experimental equipment recreating geo-reservoir conditions in large, fractured, porous samples to investigate coupled thermal, hydraulic and polyaxial stress processes
Sci. Rep. **8**, art. 14549

498. McNichol, J., **Stryhanyuk, H.**, Sylva, S.P., Thomas, F., **Musat, N.**, Seewald, J.S., Sievert, S.M. (2018):
Primary productivity below the seafloor at deep-sea hot springs
Proc. Natl. Acad. Sci. U.S.A. **115** (26), 6756 - 6761
499. Medeiros Melo, T., Bottlinger, M., **Schulz, E.**, Leandro, W.M., Menezes de Aguiar Filho, A., Ok, Y.S., Rinklebe, J. (2018):
Correction to: Effect of biosolid hydrochar on toxicity to earthworms and brine shrimp (vol 39, pg 1351, 2017)
Environ. Geochem. Health **40** (1), 557 - 558
500. Medeiros Melo, T., Bottlinger, M., **Schulz, E.**, Leandro, W.M., Menezes de Aguiar Filho, A., Wang, H., Ok, Y.S., Rinklebe, J. (2018):
Plant and soil responses to hydrothermally converted sewage sludge (sewchar)
Chemosphere **206** , 338 - 348
501. Medinski, T., Freese, D., **Reitz, T.** (2018):
Changes in soil phosphorus balance and phosphorus-use efficiency under long-term fertilization conducted on agriculturally used Chernozem in Germany
Can. J. Soil Sci. **98** (4), 650 - 662
502. Meller, C., Schill, E., Bremer, J., **Kolditz, O.**, **Bleicher, A.**, Benighaus, C., Chavot, P., **Gross, M.**, Pellizzone, A., Renn, O., Schilling, F., Kohl, T. (2018):
Acceptability of geothermal installations: A geoethical concept for GeoLaB
Geothermics **73** , 133 - 145
503. Melo, P.C., Ge, J., Craig, T., Brewer, M.J., **Thronicker, I.** (2018):
Does work-life balance affect pro-environmental behaviour? Evidence for the UK using longitudinal microdata
Ecol. Econ. **145** , 170 - 181
504. Meng, A., Marchet, C., Corre, E., Peterlongo, P., Alberti, A., Da Silva, C., Wincker, P., Pelletier, E., Probert, I., **Decelle, J.**, Le Crom, S., Not, F., Bittner, L. (2018):
A *de novo* approach to disentangle partner identity and function in holobiont systems
Microbiome **6** , art. 105
505. Meng, X., **Liu, B.**, Xi, C., Luo, X., Yuan, X., Wang, X., Zhu, W., Wang, H., Cui, Z. (2018):
Effect of pig manure on the chemical composition and microbial diversity during co-composting with spent mushroom substrate and rice husks
Bioresour. Technol. **251** , 22 - 30

506. **Menger, J.**, Unrein, J., Woitow, M., Schlegel, M., **Henle, K.**, Magnusson, W.E. (2018): Weak evidence for fine-scale genetic spatial structure in three sedentary Amazonian understorey birds. Schwache Hinweise auf eine räumlich-genetische Feinstruktur bei drei sesshaften Vögeln aus dem Unterholz des Amazonas Waldes
J. Ornithol. **159** (2), 355 - 366
507. **Menzel, A.**, Hempel, S., Davison, J., Moora, M., Pyšek, P., Rillig, M.C., Zobel, M., **Kühn, I.** (2018): Widely distributed native and alien plant species differ in arbuscular mycorrhizal associations and related functional trait interactions
Ecography **41** (9), 1583 - 1593
508. Meran, G., **Schwarze, R.** (2018): A theory of optimal green defaults
Sustainability **10** (8), art. 2902
509. Merckx, T., Souffreau, C., Kaiser, A., Baardsen, L.F., Backeljau, T., Bonte, D., Brans, K.I., Cours, M., Dahirel, M., Debortoli, N., De Wolf, K., Engelen, J.M.T., Fontaneto, D., **Gianuca, A.T.**, Govaert, L., Hendrickx, F., Higuti, J., Lens, L., Martens, K., Matheve, H., Matthysen, E., Piano, E., Sablon, R., Schön, I., Van Doninck, K., De Meester, L., Van Dyck, H. (2018): Body-size shifts in aquatic and terrestrial urban communities
Nature **558** (7708), 113 - 116
510. **Meyabeme Elono, A.L.**, **Foit, K.**, **Duquesne, S.**, **Liess, M.** (2018): Controlling *Culex pipiens*: antagonists are more efficient than a neonicotinoid insecticide
J. Vector Ecol. **43** (1), 26 - 35
511. Meyer, S.T., Ptacnik, R., Hillebrand, H., Bessler, H., Buchmann, N., Ebeling, A., Eisenhauer, N., Engels, C., Fischer, M., Halle, S., Klein, A.-M., Oelmann, Y., **Roscher, C.**, Rottstock, T., Scherber, C., Scheu, S., Schmid, B., Schulze, E.-D., Temperton, V.M., Tscharntke, T., Voigt, W., Weigelt, A., Wilcke, W., Weisser, W.W. (2018): Biodiversity–multifunctionality relationships depend on identity and number of measured functions
Nat. Ecol. Evol. **2**, 44 - 49
512. **Mi, C.**, **Frassl, M.A.**, **Boehrer, B.**, **Rinke, K.** (2018): Episodic wind events induce persistent shifts in the thermal stratification of a reservoir (Rappbode Reservoir, Germany)
Int. Rev. Hydrobiol. **103** (3-4), 71 - 82

513. Mijangos, L., Ziarrusta, H., Olivares, M., Zuloaga, O., **Möder, M.**, Etxebarria, N., Prieto, A. (2018):
Simultaneous determination of 41 multiclass organic pollutants in environmental waters by means of polyethersulfone microextraction followed by liquid chromatography–tandem mass spectrometry
Anal. Bioanal. Chem. **410** (2), 615 - 632
514. Mijangos, L., Ziarrusta, H., Prieto, A., Zugazua, O., Zuloaga, O., Olivares, M., Usobiaga, A., **Paschke, A.**, Etxebarria, N. (2018):
Evaluation of polar organic chemical integrative and hollow fibre samplers for the determination of a wide variety of organic polar compounds in seawater
Talanta **185** , 469 - 476
515. **Millinger, M.**, Meisel, K., **Budzinski, M.**, **Thrän, D.** (2018):
Relative greenhouse gas abatement cost competitiveness of biofuels in Germany
Energies **11** (3), art. 615
516. **Millinger, M.**, **Thrän, D.** (2018):
Biomass price developments inhibit biofuel investments and research in Germany: The crucial future role of high yields
J. Clean Prod. **172** , 1654 - 1663
517. Miñarro, S., **Leins, J.**, Acevedo-Trejos, E., Fulton, E.A., Reuter, H. (2018):
SEAMANCORE: A spatially explicit simulation model for assisting the local MANagement of COral REefs
Ecol. Model. **384** , 296 - 307
518. **Mirtl, M.**, Borer, E.T., Djukic, I., Forsius, M., Haubold, H., Hugo, W., Jourdan, J., Lindenmayer, D., McDowell, W.H., Muraoka, H., Orenstein, D.E., Pauw, J.C., Peterseil, J., Shibata, H., Wohner, C., Yu, X., Haase, P. (2018):
Genesis, goals and achievements of Long-Term Ecological Research at the global scale: A critical review of ILTER and future directions
Sci. Total Environ. **626** , 1439 - 1462
519. Mishra, V., Shah, R., Azhar, S., Shah, H., Modi, P., **Kumar, R.** (2018):
Reconstruction of droughts in India using multiple land-surface models (1951–2015)
Hydrol. Earth Syst. Sci. **22** (4), 2269 - 2284
520. **Möckel, S.** (2018):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **93** (6), 298 - 300
521. **Möckel, S.** (2018):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **93** (7), 345 - 347

522. **Möckel, S.** (2018):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **93** (5), 239 - 241
523. **Möckel, S.** (2018):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **93** (3), 135 - 137
524. **Möckel, S.** (2018):
Gute fachliche Praxis, Eingriffsregelung und Landwirtschaft
Nat. Recht **40** (11), 742 - 745
525. **Möckel, S.** (2018):
Plädoyer für eine herausforderungsgerechte Ressortaufteilung in der Bundesregierung
Nat. Landschaft **93** (8), 395 - 396
526. **Möckel, S.** (2018):
Monatliche Rubrik "Natur und Recht"
Nat. Landschaft **93** (4), 194 - 196
527. **Moeller, L., Bauer, A., Wedwitschka, H., Stinner, W., Zehnsdorf, A.** (2018):
Crop characteristics of aquatic macrophytes for use as a substrate in anaerobic digestion plants—A study from Germany
Energies **11** (11), art. 3016
528. **Moeller, L., Bauer, A., Zehnsdorf, A., Lee, M.-Y., Müller, R.A.** (2018):
Anaerobic co-digestion of waste yeast biomass from citric acid production and waste frying fat
Eng. Life Sci. **18** (7), 425 - 433
529. **Moeller, L., Zehnsdorf, A., Müller, R.A.** (2018):
Effect of triticale milling coarseness on biogas production
Chem. Ing. Tech. **90** (1-2), 249 - 255
530. **Moll, J., Kellner, H., Leonhardt, S., Stengel, E., Dahl, A., Bässler, C., Buscot, F., Hofrichter, M., Hoppe, B.** (2018):
Bacteria inhabiting deadwood of 13 tree species are heterogeneously distributed between sapwood and heartwood
Environ. Microbiol. **20** (10), 3744 - 3756
531. **Mollenhauer, H., Kasner, M., Haase, P., Peterseil, J., Wohner, C., Frenzel, M., Schima, R., Bumberger, J., Zacharias, S.** (2018):
Long-term environmental monitoring infrastructures in Europe: observations, measurements, scales, and socio-ecological representativeness
Sci. Total Environ. **624**, 968 - 978

532. Möller, P., Rosenthal, E., Inbar, N., **Siebert, C.** (2018):
Development of the Inland Sea and its evaporites in the Jordan-Dead Sea Transform
based on hydrogeochemical considerations and the geological consequences
Int. J. Earth Sci. **107** (7), 2409 - 2431
533. Montero, J.I.Z., Monteiro, A.S.C., **Gontijo, E.S.J.**, Bueno, C.C., de Moraes, M.A., Rosa, A.H. (2018):
High efficiency removal of As(III) from waters using a new and friendly adsorbent based
on sugarcane bagasse and corncob husk Fe-coated biochars
Ecotox. Environ. Safe. **162** , 616 - 624
534. Moodley, I., Sheridan, C.M., **Kappelmeyer, U.**, Akcil, A. (2018):
Environmentally sustainable acid mine drainage remediation: Research developments
with a focus on waste/by-products
Miner. Eng. **126** , 207 - 220
535. Moreira, F., **Pe'er, G.** (2018):
Agricultural policy can reduce wildfires
Science **359** (6379), 1001
536. Mortensen, B., Danielson, B., **Harpole, W.S.**, Alberti, J., Arnillas, C.A., Biederman, L.,
Borer, E.T., Cadotte, M.W., Dwyer, J.M., Hagenah, N., Hautier, Y., Peri, P.L., Seabloom,
E.W. (2018):
Herbivores safeguard plant diversity by reducing variability in dominance
J. Ecol. **106** (1), 101 - 112
537. Müller, C., **Musolff, A.**, Strachauer, U., Brauns, M., Tarasova, L., Merz, R., Knöller,
K. (2018):
Tomography of anthropogenic nitrate contribution along a mesoscale river
Sci. Total Environ. **615** , 773 - 783
538. Müller, M.E., **Escher, B.I.**, Schwientek, M., Werneburg, M., Zarfl, C., Zwiener, C.
(2018):
Combining in vitro reporter gene bioassays with chemical analysis to assess changes in
the water quality along the Ammer River, Southwestern Germany
Environ. Sci. Eur. **30** , art. 20
539. **Muschket, M.**, Di Paolo, C., Tindall, A.J., Touak, G., Phan, A., **Krauss, M.**,
Kirchner, K., Seiler, T.-B., Hollert, H., **Brack, W.** (2018):
Identification of unknown antiandrogenic compounds in surface waters by effect-directed
analysis (EDA) using a parallel fractionation approach
Environ. Sci. Technol. **52** (1), 288 - 297

540. **Musolff, A., Fleckenstein, J.H., Opitz, M., Büttner, O., Kumar, R., Tittel, J.** (2018): Spatio-temporal controls of dissolved organic carbon stream water concentrations
J. Hydrol. **566**, 205 - 215
541. Mysiak, J., Castellari, S., Kurnik, B., Swart, R., Pringle, P., Schwarze, R., Wolters, H., Jeuken, A., van der Linden, P. (2018): Brief communication: Strengthening coherence between climate change adaptation and disaster risk reduction
Nat. Hazards Earth Syst. Sci. **18** (11), 3137 - 3143
542. **Naasz, S., Altenburger, R., Kühnel, D.** (2018): Environmental mixtures of nanomaterials and chemicals: The Trojan-horse phenomenon and its relevance for ecotoxicity
Sci. Total Environ. **635**, 1170 - 1181
543. Nabe-Nielsen, J., van Beest, F.M., **Grimm, V.**, Sibly, R.M., Teilmann, J., Thompson, P.M. (2018): Predicting the impacts of anthropogenic disturbances on marine populations
Conserv. Lett. **11** (5), e12563
544. Nahuelhual, L., Saavedra, G., Henríquez, F., **Benra, F.**, Vergara, X., Perugache, C., Hasen, F. (2018): Opportunities and limits to ecosystem services governance in developing countries and indigenous territories: The case of water supply in Southern Chile
Environ. Sci. Policy **86**, 11 - 18
545. **Nawaz, A., Purahong, W., Lehmann, R., Herrmann, M., Totsche, K.U., Küsel, K., Wubet, T., Buscot, F.** (2018): First insights into the living groundwater mycobiome of the terrestrial biogeosphere
Water Res. **145**, 50 - 61
546. Neale, P.A., **Brack, W.**, Ait-Aissa, S., **Busch, W.**, Hollender, J., **Krauss, M.**, Maillot-Maréchal, E., Munz, N.A., **Schlichting, R.**, Schulze, T., Vogler, B., **Escher, B.I.** (2018): Solid-phase extraction as sample preparation of water samples for cell-based and other *in vitro* bioassays
Environ. Sci.-Proc. Imp. **20** (3), 493 - 504
547. Neale, P.A., Leusch, F.D.L., **Escher, B.I.** (2018): What is driving the NF-κB response in environmental water extracts?
Chemosphere **210**, 645 - 652

548. Nendza, M., **Kühne, R.**, Lombardo, A., Stempel, S., **Schüürmann, G.** (2018):
PBT assessment under REACH: Screening for low aquatic bioaccumulation with
QSAR classifications based on physicochemical properties to replace BCF *in vivo* testing
on fish
Sci. Total Environ. **616-617**, 97 - 106
549. Newcomer, M.E., Hubbard, S.S., **Fleckenstein, J.H.**, Maier, U., **Schmidt, C.**, **Thullner, M.**, Ulrich, C., Flipo, F., Rubin, Y. (2018):
Influence of hydrological perturbations and riverbed sediment characteristics on
hyporheic zone respiration of CO₂ and N₂
J. Geophys. Res.-Biogeosci. **123** (3), 902 - 922
550. Nguyen, N.H.A., Von Moos, N.R., Slaveykova, V.I., **Mackenzie, K.**, Meckenstock, R.U.,
Thůmmler, S., Bosch, J., Ševců, A. (2018):
Biological effects of four iron-containing nanoremediation materials
on the green alga *Chlamydomonas* sp.
Ecotox. Environ. Safe. **154**, 36 - 44
551. Nguyen, T.H.T., Everaert, G., Boets, P., Forio, M.A.E., Bennetsen, E., **Volk, M.**, Hoang,
T.H.T., Goethals, P.L.M. (2018):
Modelling tools to analyze and assess the ecological impact of hydropower dams
Water **10** (3), art. 259
552. Nguyen, V.S., Nguyen, H.M., **Klotzbücher, A.**, **Vetterlein, D.**, Klotzbücher, T.,
Jahn, R., Schneiker, J., Türke, M., Fried, O., Bergmeier, E., **Sattler, C.**, **Settele, J.**
(2018):
From science to application: field demonstrations to enhance sustainable rice production
in the north of Vietnam—lessons from the LEGATO project
Paddy Water Environ. **16** (2), 353 - 358
553. Nicolini, G., Aubinet, M., Feigenwinter, C., Heinesch, B., Lindroth, A.,
Mamadou, O., Moderow, U., Mölder, M., Montagnani, L., **Rebmann, C.**, Papale, D.
(2018):
Impact of CO₂ storage flux sampling uncertainty on net ecosystem exchange measured by
eddy covariance
Agric. For. Meteorol. **248**, 228 - 239
554. **Nijenhuis, I.**, **Stollberg, R.**, Lechner, U. (2018):
Anaerobic microbial dehalogenation and its key players in the contaminated
Bitterfeld-Wolfen megasite
FEMS Microbiol. Ecol. **94** (4), fiy012

555. Nikolenko, O., Jurado, A., Borges, A.V., **Knöller, K.**, Brouyère, S. (2018): Isotopic composition of nitrogen species in groundwater under agricultural areas: A review
Sci. Total Environ. **621**, 1415 - 1432
556. **Nivala, J., Kahl, S., Boog, J., van Afferden, M., Reemtsma, T., Müller, R.A.** (2018): Dynamics of emerging organic contaminant removal in conventional and intensified subsurface flow treatment wetlands
Sci. Total Environ. **649**, 1144 - 1156
557. **Nivala, J., Neale, P.A., Haasis, T., Kahl, S., König, M., Müller, R.A., Reemtsma, T., Schlichting, R., Escher, B.I.** (2018): Application of cell-based bioassays to evaluate treatment efficacy of conventional and intensified treatment wetlands
Environ. Sci.-Wat. Res. Technol. **4** (2), 206 - 217
558. **Nivala, J., van Afferden, M.**, Hasselbach, R., Langergraber, G., Molle, P., Rustige, H., Nowak, J. (2018): The new German standard on constructed wetland systems for treatment of domestic and municipal wastewater
Water Sci. Technol. **78** (11), 2414 - 2426
559. **Nixdorf, E., Trauth, N.** (2018): Evaluating the reliability of time series analysis to estimate variable riparian travel times by numerical groundwater modelling
Hydrol. Process. **32** (3), 408 - 420
560. Nkwain, F.N., Demyan, M.S., Rasche, F., Dignac, M.-F., **Schulz, E.**, Kätterer, T., Müller, T., Cadisch, G. (2018): Coupling pyrolysis with mid-infrared spectroscopy (Py-MIRS) to fingerprint soil organic matter bulk chemistry
J. Anal. Appl. Pyrolysis **133**, 176 - 184
561. Novák, J., Vrana, B., Rusina, T., Okonski, K., Grabic, R., Neale, P.A., **Escher, B.I.**, **Macová, M.**, Ait-Aissa, S., Creusot, N., Creusot, I., Hilscherová, K. (2018): Effect-based monitoring of the Danube River using mobile passive sampling
Sci. Total Environ. **636**, 1608 - 1619
562. Nowak, K.M., Marco-Urrea, E., **Adrian, L.** (2018): Markierung im mikrobiellen Stoffwechsel
Biospektrum **24** (5), 491 - 494

563. Nowak, K.M., Telscher, M., Seidel, E., Miltner, A. (2018):
Unraveling microbial turnover and non-extractable residues of bromoxynil in
soil microcosms with ^{13}C -isotope probing
Environ. Pollut. **242**, 769 - 777
564. Nwankwo, C.I., Blaser, S.R.G.A., Vetterlein, D., Neumann, G., Herrmann, L. (2018):
Seedball-induced changes of root growth and physico-chemical properties—a case study
with pearl millet
J. Plant Nutr. Soil Sci. **181** (5), 768 - 776
565. Obrador, B., von Schiller, D., Marcé, R., Gómez-Gener, L., Koschorreck, M., Borrego,
C., Catalán, N. (2018):
Dry habitats sustain high CO₂ emissions from temporary ponds across seasons
Sci. Rep. **8**, art. 3015
566. Ockendon, N., Thomas, D.H.L., Cortina, J., Adams, W.M., Aykroyd, T., Barov, B.,
Boitani, L., Bonn, A., Branquinho, C., Brombacher, M., Burrell, C., Carver, S., Crick,
H.Q.P., Duguy, B., Everett, S., Fokkens, B., Fuller, R.J., Gibbons, D.W., Gokhelashvili,
R., Griffin, C., Halley, D.C., Hotham, P., Hughes, F.M.R., Karamanlidis, A.A., McOwen,
C.J., Miles, L., Mitchell, R., Rands, M.R.W., Roberts, J., Sandom, C.J., Spencer, J.W., ten
Broeke, E., Tew, E.R., Thomas, C.D., Timoshyna, A., Unsworth, R.F.K., Warrington, S.,
Sutherland, W.J. (2018):
One hundred priority questions for landscape restoration in Europe
Biol. Conserv. **221**, 198 - 208
567. Oehler, T., Eiche, E., Putra, D., Adyasari, D., Hennig, H., Mallast, U., Moosdorf, N.
(2018):
Seasonal variability of land-ocean groundwater nutrient fluxes from a tropical karstic
region (southern Java, Indonesia)
J. Hydrol. **565**, 662 - 671
568. Oehling, V., Klaassen, P., Frick, O., Dusny, C., Schmid, A. (2018):
L-Arabinose triggers its own uptake via induction of the
arabinose-specific Gal2p transporter in an industrial *Saccharomyces cerevisiae* strain
Biotechnol. Biofuels **11**, art. 231
569. Oetken, M., Jungmann, D., Bundschuh, M., Heß, M., Höss, S., Klein, R., Luckenbach,
T., Osterauer, R., Peschke, K., Sosat, R. (2018):
Aquatatische Wirbellose – inwiefern können sie als Wirkungsindikatoren für eine
Gewässerbelastung dienen? Aquatic invertebrates - How can they serve as output
indicators of water pollution?
Gefahrst. Reinhalt. Luft **78** (4), 171 - 172

570. **Ogungbemi, A.O.**, van Gestel, C.A.M. (2018):
Extrapolation of imidacloprid toxicity between soils by exposing *Folsomia candida* in soil pore water
Ecotoxicology **27** (8), 1107 - 1115
571. O'Hanlon, S.J., Rieux, A., Farrer, R.A., Rosa, G.M., Waldmann, P., Bataille, A., Kosch, T.A., Murray, K.A., Brankovics, B., Fumagalli, M., Martin, M.D., Wales, N., Alvarado-Rybak, M., Bates, K.A., Berger, L., Böll, S., Brookes, L., Clare, F., Courtois, E.A., Cunningham, A.A., Doherty-Bone, T.M., Ghosh, P., Gower, D.J., Hintz, W.E., Höglund, J., Jenkinson, T.S., Lin, C.-F., Laurila, A., **Loyau, A.**, Martel, A., Meurling, S., Miaud, C., Minting, P., Pasman, F., **Schmeller, D.S.**, Schmidt, B.R., Shelton, J.M.G., Skerratt, L.F., Smith, F., Soto-Azat, C., Spagnoletti, M., Tessa, G., Toledo, L.F., Valenzuela-Sánchez, A., Verster, R., Vörös, J., Webb, R.J., Wierzbicki, C., Wombwell, E., Zamudio, K.R., Aanensen, D.M., James, T.Y., Gilbert, M.T.P., Weldon, C., Bosch, J., Balloux, F., Garner, T.W.J., Fisher, M.C. (2018):
Recent Asian origin of chytrid fungi causing global amphibian declines
Science **360** (6389), 621 - 627
572. Olsson, O., Roos, A., Guisson, R., Bruce, L., Lamers, P., Hektor, B., **Thrän, D.**, Hartley, D., Ponitka, J., **Hildebrandt, J.** (2018):
Time to tear down the pyramids? A critique of cascading hierarchies as a policy tool
Wiley Interdiscip. Rev. Energy Environ. **7** (2), art. e279
573. Ongey, E.L., Giessmann, R.T., Fons, M., Rappaport, J., **Adrian, L.**, Neubauer, P. (2018):
Heterologous biosynthesis, modifications and structural characterization of ruminococcin-A, a lanthipeptide from the gut bacterium *Ruminococcus gnavus* E1, in *Escherichia coli*
Front. Microbiol. **9**, art. 1688
574. Op de Hipt, F., Diekkrüger, B., Steup, G., Yira, Y., Hoffmann, T., **Rode, M.** (2018):
Modeling the impact of climate change on water resources and soil erosion in a tropical catchment in Burkina Faso, West Africa
Catena **163** , 63 - 77
575. Oppermann, R., Sutcliffe, L.M.E., Arndt, J., Gottwald, F., Jedicke, E., Keelan, S., Kretzschmar, C., Meyerhoff, E., Metzner, J., Ochsner, S., Pfeffer, H., **Schmidt, J.**, Stein-Bachinger, K., Wiersbinski, N. (2018):
Naturwertfördernde Maßnahmen und Natur-Agrar-Beratung - fünf Anforderungen.
Improving farmland nature value through measures and advice - five recommendations
Nat. Landschaft **93** (3), 120 - 124
576. Osterloh, K., Tauchnitz, N., **Spott, O.**, Hepp, J., Bernsdorf, S., **Meissner, R.** (2018):
Changes of methane and nitrous oxide emissions in a transition bog in central Germany (German National Park Harz Mountains) after rewetting
Wetlands Ecology and Management **26** (1), 87 - 102

577. Ostvar, S., Iltis, G., Davit, Y., **Schlüter, S.**, Andersson, L., Wood, B.D., Wildenschild, D. (2018):
Investigating the influence of flow rate on biofilm growth in three dimensions using microimaging
Adv. Water Resour. **117**, 1 - 13
578. Ozbayram, E.G., Akyol, C., Ince, B., **Karakoç, C.**, Ince, O. (2018):
Rumen bacteria at work: bioaugmentation strategies to enhance biogas production from cow manure
J. Appl. Microbiol. **124** (2), 491 - 502
579. Ozbayram, E.G., Ince, O., Ince, B., **Harms, H.**, **Kleinsteuber, S.** (2018):
Comparison of rumen and manure microbiomes and implications for the inoculation of anaerobic digesters
Microorganisms **6** (1), art. 15
580. Ozbayram, E.G., **Kleinsteuber, S.**, **Nikolausz, M.**, Ince, B., Ince, O. (2018):
Enrichment of lignocellulose-degrading microbial communities from natural and engineered methanogenic environments
Appl. Microbiol. Biotechnol. **102** (2), 1035 - 1043
581. Ozbayram, E.G., **Kleinsteuber, S.**, **Nikolausz, M.**, Ince, B., Ince, O. (2018):
Bioaugmentation of anaerobic digesters treating lignocellulosic feedstock by enriched microbial consortia
Eng. Life Sci. **18** (7), 440 - 446
582. **Paasche, H.** (2018):
About probabilistic integration of ill-posed geophysical tomography and logging data: A knowledge discovery approach versus petrophysical transfer function concepts illustrated using cross-borehole radar-, P- and S-wave traveltimes tomography in combination with cone penetration and dielectric logging data
J. Appl. Geophys. **148**, 175 - 188
583. Pang, Z., Kong, Y., **Shao, H.**, **Kolditz, O.** (2018):
Progress and perspectives of geothermal energy studies in China: from shallow to deep systems
Environ. Earth Sci. **77** (16), art. 580
584. Panteleit, J., Horgan, F.G., **Türke, M.**, **Schmidt, A.**, **Schädler, M.**, Bacht, M., Brandl, R., Hotes, S. (2018):
Effects of detritivorous invertebrates on the decomposition of rice straw: evidence from a microcosm experiment
Paddy Water Environ. **16** (2), 279 - 286

585. Panteleit, J., **Keller, N.S.**, Diéguez-Uribeondo, J., Makkonen, J., Martín-Torrijos, L., Patrulea, V., Pîrvu, M., Preda, C., Schrimpf, A., Pârvulescu, L. (2018):
Hidden sites in the distribution of the crayfish plague pathogen *Aphanomyces astaci* in Eastern Europe: Relicts of genetic groups from older outbreaks?
J. Invertebr. Pathol. **157**, 117 - 124
586. Paquette, A., Hector, A., Castagnayrol, B., Vanhellemont, M., Koricheva, J., Scherer-Lorenzen, M., Verheyen, K., Abdala-Roberts, L., **Auge, H.**, Barsoum, N., Bauhus, J., Baum, C., Bruelheide, H., Cavender-Bares, J., Eisenhauer, N., Ferlian, O., Ganade, G., Godbold, D., Gravel, D., Hall, J., Hobbs, R., Hoelscher, D., Hulvey, K.B., Huxham, M., Jactel, H., Kreft, H., Liang, J., Mereu, S., Messier, C., Montgomery, R., Muys, B., Nock, C., Parker, J., Parra-Tabla, V., Perring, M.P., Ponette, Q., Potvin, C., Reich, P.B., Rewald, B., Sandén, H., Smith, A., Standish, R., Weih, M., Wollni, M., Zemp, D.C. (2018):
A million and more trees for science
Nat. Ecol. Evol. **2**, 763 - 766
587. Pardini, E.A., Parsons, L.S., Ştefan, V., **Knight, T.M.** (2018):
GLMM BACI environmental impact analysis shows coastal dune restoration reduces seed predation on an endangered plant
Restor. Ecol. **26** (6), 1190 - 1194
588. **Parisio, F.**, Naumov, D., Kolditz, O., Nagel, T. (2018):
Material forces: An insight into configurational mechanics
Mech. Res. Commun. **93**, 114 - 118
589. **Parisio, F.**, Vilarrasa, V., Laloui, L. (2018):
Hydro-mechanical modeling of tunnel excavation in anisotropic shale with coupled damage-plasticity and micro-dilatant regularization
Rock Mech. Rock Eng. **51** (12), 3819 - 3833
590. Parker, T.H., Griffith, S.C., Bronstein, J.L., Fidler, F., Foster, S., Fraser, H., Forstmeier, W., Gurevitch, J., Koricheva, J., **Seppelt, R.**, Tingley, M.W., Nakagawa, S. (2018):
Empowering peer reviewers with a checklist to improve transparency
Nat. Ecol. Evol. **2** (6), 929 - 935
591. Pasetto, D., Arenas-Castro, S., Bustamante, J., Casagrandi, R., Chrysoulakis, N., **Cord, A.F.**, **Dittrich, A.**, Domingo-Marimon, C., El Serafy, G., Karnieli, A., Kordelas, G.A., Manakos, I., Mari, L., Monteiro, A., Palazzi, E., Poursanidis, D., Rinaldo, A., Terzaghi, S., Ziomba, A., Ziv, G. (2018):
Integration of satellite remote sensing data in ecosystem modelling at local scales: Practices and trends
Methods Ecol. Evol. **9** (8), 1810 - 1821

592. Passeport, E., **Zhang, N.**, Wu, L., Herrmann, H., Lollar, B.S., **Richnow, H.-H.** (2018): Aqueous photodegradation of substituted chlorobenzenes: Kinetics, carbon isotope fractionation, and reaction mechanisms
Water Res. **135**, 95 - 103
593. Pätzig, M., Vadeboncoeur, Y., **Brauns, M.** (2018): Lakeshore modification reduces secondary production of macroinvertebrates in littoral but not deeper zones
Freshw. Sci. **37** (4), 845 - 856
594. **Peichl, M.**, Thober, S., Meyer, V., Samaniego, L. (2018): The effect of soil moisture anomalies on maize yield in Germany
Nat. Hazards Earth Syst. Sci. **18** (3), 889 - 906
595. Peng, Y., Fang, W., **Krauss, M.**, Brack, W., Wang, Z., Li, F., Zhang, X. (2018): Screening hundreds of emerging organic pollutants (EOPs) in surface water from the Yangtze River Delta (YRD): Occurrence, distribution, ecological risk
Environ. Pollut. **241**, 484 - 493
596. **Petermann, E.**, Gibson, J.J., Knöller, K., Pannier, T., Weiß, H., Schubert, M. (2018): Determination of groundwater discharge rates and water residence time of groundwater-fed lakes by stable isotopes of water (^{18}O , ^2H) and radon (^{222}Rn) mass balances
Hydrol. Process. **32** (6), 805 - 816
597. **Petermann, E.**, Knöller, K., Rocha, C., Scholten, J., **Stollberg, R.**, Weiß, H., Schubert, M. (2018): Coupling end-member mixing analysis and isotope mass balancing (222-Rn) for differentiation of fresh and re-circulated submarine groundwater discharge into Knysna Estuary, South Africa
J. Geophys. Res. **123**, 952 - 970
598. Peters, K., **Worrich, A.**, Weinhold, A., Alka, O., Balcke, G., Birkemeyer, C., Bruelheide, H., Calf, O.W., Dietz, S., Dührkop, K., Gaquerel, E., Heinig, U., Kücklich, M., Macel, M., Müller, C., Poeschl, Y., Pohnert, G., Ristok, C., Rodríguez, V.M., Ruttkies, C., Schumann, M., Schweiger, R., Shahaf, N., Steinbeck, C., Tortosa, M., Treutler, H., Ueberschaar, N., Velasco, P., Weiß, B.M., Widdig, A., Neumann, S., van Dam, N.M. (2018): Current challenges in plant eco-metabolomics
Int. J. Mol. Sci. **19** (5), art. 1385
599. Pfeiffer, D., **Thrän, D.** (2018): One century of bioenergy in Germany: wildcard and advanced technology
Chem. Ing. Tech. **90** (11), 1676 - 1698

600. Phillips Smith, M., Standl, M., Berdel, D., von Berg, A., Bauer, C.-P., Schikowski, T., Koletzko, S., **Lehmann, I.**, Krämer, U., Heinrich, J., Schulz, H. (2018): Handgrip strength is associated with improved spirometry in adolescents
PLOS One **13** (4), e0194560
601. Pickenhain, R., **Schmidt, M.**, von Wenckstern, H., Benndorf, G., Pöppl, A., Böttcher, R., Grundmann, M. (2018): Negative-*U* properties of the deep level E3 in ZnO
Phys. Status Solidi B-Basic Solid State Phys. **255** (7), art. 1700670
602. **Piotrowska, A.**, Syguda, A., Wyrwas, B., Chrzanowski, Ł., **Luckenbach, T.**, **Heipieper, H.J.** (2018): Effects of ammonium-based ionic liquids and 2,4-dichlorophenol on the phospholipid fatty acid composition of zebrafish embryos
PLOS One **13** (1), e0190779
603. Plomion, C., Aury, J.-M., Amselem, J., Leroy, T., Murat, F., Duplessis, S., Faye, S., Francillonne, N., Labadie, K., Le Provost, G., Lesur, I., Bartholomé, J., Faivre-Rampant, P., Kohler, A., Leplé, J.-C., Chantret, N., Chen, J., Diévert, A., Alaeitabar, T., Barbe, V., Belser, C., Bergès, H., Bodénès, C., Bogeat-Triboulot, M.-B., **Bouffaud, M.-L.**, Brachi, B., Chancerel, E., Cohen, D., Couloux, A., Da Silva, C., Dossat, C., Ehrenmann, F., Gaspin, C., Grima-Pettenati, J., Guichoux, E., Hecker, A., **Herrmann, S.**, Hugueney, P., Hummel, I., Klopp, C., Lalanne, C., Lascoux, M., Lasserre, E., Lemainque, A., Desprez-Loustau, M.-L., Luyten, I., Madoui, M.-A., Mangenot, S., Marchal, C., Maumus, F., Mercier, J., Michotey, C., Panaud, O., Picault, N., Rouhier, N., Rué, O., Rustenholz, C., Salin, F., Soler, M., **Tarkka, M.**, Velt, A., Zanne, A.E., Martin, F., Wincker, P., Quesneville, H., Kremer, A., Salse, J. (2018): Oak genome reveals facets of long lifespan
Nat. Plants **4**, 440 - 452
604. Podschun, S.A., Thiele, J., Dehnhardt, A., Mehl, D., Hoffmann, T.G., Albert, C., von Haaren, C., Deutschmann, K., **Fischer, C.**, **Scholz, M.**, Costea, G., Pusch, M.T. (2018): Das Konzept der Ökosystemleistungen - eine Chance für integratives Gewässermanagement. The ecosystem service concept - a chance for integrative water resource management
Hydrol. Wasserbewirtsch. **62** (6), 453 - 468
605. Pöhlitz, J., Rücknagel, J., Koblenz, B., **Schlüter, S.**, **Vogel, H.-J.**, Christen, O. (2018): Computed tomography and soil physical measurements of compaction behaviour under strip tillage, mulch tillage and no tillage
Soil Tillage Res. **175**, 205 - 216

606. **Polst, B.H., Anlanger, C., Risse-Buhl, U., Larras, F., Hein, T., Weitere, M., Schmitt-Jansen, M.** (2018):
Hydrodynamics alter the tolerance of autotrophic biofilm communities toward herbicides
Front. Microbiol. **9**, art. 2884
607. Poméon, T., Diekkrüger, B., **Kumar, R.** (2018):
Computationally efficient multivariate calibration and validation of a grid-based hydrologic model in sparsely gauged West African river basins
Water **10** (10), art. 1418
608. Pons, S., **Bindschedler, S.**, Sebag, D., Junier, P., Verrecchia, E., Cailleau, G. (2018):
Biocontrolled soil nutrient distribution under the influence of an oxalogenic-oxalotrophic ecosystem
Plant Soil **425** (1–2), 145 - 160
609. Potschin-Young, M., Haines-Young, R., **Görg, C., Heink, U., Jax, K.**, Schleyer, C. (2018):
Understanding the role of conceptual frameworks: Reading the ecosystem service cascade
Ecosystem Services **29** (Part C), 428 - 440
610. Pozdnyakova, N., **Schlosser, D.**, Dubrovskaya, E., Balandina, S., Sigida, E., Grinev, V., Turkovskaya, O. (2018):
The degradative activity and adaptation potential of the litter-decomposing fungus *Stropharia rugosoannulata*
World J. Microbiol. Biotechnol. **34**, art. 133
611. Pranchai, A., Jenke, M., Vogt, J., Grueters, U., **Lin, Y.**, Machado de Menezes, M., Wagner, S., Berger, U. (2018):
Density-dependent shift from facilitation to competition in a dwarf *Avicennia germinans* forest
Wetlands Ecology and Management **26** (2), 139 - 150
612. **Prays, N., Dominik, P., Sänger, A., Franko, U.** (2018):
Biogas residue parameterization for soil organic matter modeling
PLOS One **13** (10), e0204121
613. **Priess, J.A., Hauck, J., Haines-Young, R., Alkemade, R., Mandryk, M., Veerkamp, C., Gyorgyi, B., Dunford, R., Berry, P., Harrison, P., Dick, J., Keune, H., Kok, K., Koppenroinen, L., Lazarova, T., Maes, J., Pataki, G., Preda, E., Schleyer, C., Görg, C., Vadineanu, A., Zulian, G.** (2018):
New EU-scale environmental scenarios until 2050 – Scenario process and initial scenario applications
Ecosystem Services **29** (Part C), 542 - 551

614. **Prieto-Ramirez, A.M., Pe'er, G., Rödder, D., Henle, K.** (2018):
Realized niche and microhabitat selection of the eastern green lizard (*Lacerta viridis*) at the core and periphery of its distribution range
Ecol. Evol. **8** (22), 11322 - 11336
615. Pueffel, C., **Haase, D., Priess, J.A.** (2018):
Mapping ecosystem services on brownfields in Leipzig, Germany
Ecosystem Services **30** (Part A), 73 - 85
616. **Pujades, E., Jurado, A., Orban, P., Ayora, C., Poulain, A., Goderniaux, P., Brouyère, S., Dassargues, A.** (2018):
Hydrochemical changes induced by underground pumped storage hydropower and their associated impacts
J. Hydrol. **563** , 927 - 941
617. **Pujades, E., Jurado, A., Orban, P., Dassargues, A.** (2018):
Hydrochemical changes induced by underground pumped storage hydropower: influence of aquifer parameters in coal mine environments
Advances in Geosciences **45** , 45 - 49
618. **Pujades, E., Orban, P., Archambeau, P., Erpicum, S., Dassargues, A.** (2018):
Numerical study of the Martelange mine to be used as underground reservoir for constructing an Underground Pumped Storage Hydropower plant
Advances in Geosciences **45** , 54 - 56
619. **Purahong, W., Orrù, L., Donati, I., Perpetuini, G., Cellini, A., Lamontanara, A., Michelotti, V., Tacconi, G., Spinelli, F.** (2018):
Plant microbiome and its link to plant health: host species, organs and *Pseudomonas syringae* pv. *actinidiae* infection shaping bacterial phyllosphere communities of kiwifruit plants
Front. Plant Sci. **9** , art. 1563
620. **Purahong, W., Wubet, T., Kahl, T., Arnstadt, T., Hoppe, B., Lentendu, G., Baber, K., Rose, T., Kellner, H., Hofrichter, M., Bauhus, J., Krüger, D., Buscot, F.** (2018):
Increasing N deposition impacts neither diversity nor functions of deadwood-inhabiting fungal communities, but adaptation and functional redundancy ensure ecosystem function
Environ. Microbiol. **20** (5), 1693 - 1710
621. **Purahong, W., Wubet, T., Krüger, D., Buscot, F.** (2018):
Molecular evidence strongly supports deadwood-inhabiting fungi exhibiting unexpected tree species preferences in temperate forests
ISME J. **12** , 289 - 295

622. **Purahong, W., Wubet, T., Lentendu, G., Hoppe, B., Jariyavidyanont, K..**
Arnstadt, T., Baber, K., Otto, P., Kellner, H., Hofrichter, M., Bauhus, J., Weisser,
W.W., Krüger, D., Schulze, E.-D., Kahl, T., Buscot, F. (2018):
Determinants of deadwood-inhabiting fungal communities in temperate forests:
Molecular evidence from a large scale deadwood decomposition experiment
Front. Microbiol. **9**, art. 2120
623. **Purkus, A., Gawel, E., Szarka, N., Lauer, M., Lenz, V., Ortwein, A., Tafarte, P.**
, **Eichhorn, M., Thrän, D.** (2018):
Contributions of flexible power generation from biomass to a secure and cost-effective
electricity supply—a review of potentials, incentives and obstacles in Germany
Energy Sustain. Soc. **8**, art. 18
624. **Purkus, A., Hagemann, N., Bedtke, N., Gawel, E.** (2018):
Towards a sustainable innovation system for the German wood-based bioeconomy:
Implications for policy design
J. Clean Prod. **172**, 3955 - 3968
625. Quaas, M.F., Stoeven, M.T., **Klauer, B., Petersen, T., Schiller, J.** (2018):
Windows of opportunity for sustainable fisheries management: The case of Eastern Baltic
cod
Environ. Resour. Econ. **70** (2), 323 - 341
626. **Rabot, E., Wiesmeier, M., Schlüter, S., Vogel, H.-J.** (2018):
Soil structure as an indicator of soil functions: A review
Geoderma **314**, 122 - 137

627. Rahmati, M., Weihermüller, L., Vanderborght, J., Pachepsky, Y.A., Mao, L., Sadeghi, S.H., Moosavi, N., Kheirfam, H., Montzka, C., Van Looy, K., Toth, B., Hazbavi, Z., Al Yamani, W., Albalasmeh, A.A., Alghzawi, M.Z., Angulo-Jaramillo, R., Dantas Antonino, A.C., Arampatzis, G., Armindo, R.A., Asadi, H., Bamutaze, Y., Batlle-Aguilar, J., Béchet, B., Becker, F., Blöschl, G., Bohne, K., Braud, I., Castellano, C., Cerdà, A., Chalhoub, M., Cichota, R., Císlarová, M., Clothier, B., Coquet, Y., Cornelis, W., Corradini, C., Paiva Coutinho, A., de Oliveira, M.B., de Macedo, J.R., Durães, M.F., Emami, H., Eskandari, I., Farajnia, A., Flammini, A., Fodor, N., Gharaibeh, M., Ghavimipanah, M.H., Ghezzehei, T.A., Giertz, S., Hatzigiannakis, E.G., Horn, R., Jiménez, J.J., Jacques, D., Keesstra, S.D., Kelishadi, H., Kiani-Harchegani, M., Kouselou, M., Jha, M.K., Lassabatere, L., Li, X., Liebig, M.A., Lichner, L., López, M.V., Machiwal, D., Mallants, D., Mallmann, M.S., de Oliveira Marques, J.D., Marshall, M.R., Mertens, J., Meunier, F., Mohammadi, M.H., Mohanty, B.P., Pulido-Moncada, M., Montenegro, S., Morbidelli, R., Moret-Fernández, D., Moosavi, A.A., Moosavi, M.R., Mousavi, S.B., Mozaffari, H., Nabiollahi, K., Neyshabouri, M.R., Ottoni, M.V., Ottoni Filho, T.B., Pahlavan-Rad, M.R., Panagopoulos, A., Peth, S., Peyneau, P.-E., Picciafuoco, T., Poesen, J., Pulido, M., Reinert, D.J., Reinsch, S., Rezaei, M., Roberts, F.P., Robinson, D., Rodrigo-Comino, J., Rotunno Filho, O.C., Saito, T., Suganuma, H., Saltalippi, H., Sándor, R., Schütt, B., Seeger, M., Sepehrnia, N., Moghaddam, E.S., Shukla, M., Shutaro, S., Sorando, R., Stanley, A.A., Strauss, P., Su, Z., Taghizadeh-Mehrjardi, R., Taguas, E., Teixeira, W.G., Vaezi, A.R., Vafakhah, M., Vogel, T., Vogeler, I., Votrubova, J., Werner, S., Winarski, T., Yilmaz, D., Young, M.H., **Zacharias, S.**, Zeng, Y., Zhao, Y., Zhao, H., Vereecken, H. (2018): Development and analysis of the Soil Water Infiltration Global database *Earth Syst. Sci. Data* **10** (3), 1237 - 1263
628. Rammig, A., Heinke, J., Hofhansl, F., Verbeeck, H., Baker, T.R., Christoffersen, B., Ciais, P., De Deurwaerder, H., Fleischer, K., Galbraith, D., Guimberteau, M., **Huth, A.**, Johnson, M., Krujtit, B., Langerwisch, F., Meir, P., Papastefanou, P., Sampaio, G., Thonicke, K., von Randow, C., Zang, C., **Rödig, E.** (2018): A generic pixel-to-point comparison for simulated large-scale ecosystem properties and ground-based observations: an example from the Amazon region *Geosci. Model Dev.* **11** (12), 5203 - 5215
629. **Rauschmayer, F., Polzin, C.**, Mock, M., Omann, I. (2018): Examining collective action through the capability approach: the example of community currencies *Journal of Human Development and Capabilities* **19** (3), 345 - 364

630. **Rebmann, C., Aubinet, M., Schmid, H.P., Arriga, N., Aurela, M., Burba, G., Clement, R., de Ligne, A., Fratini, G., Gielen, B., Grace, J., Graf, A., Gross, P., Haapanala, S., Herbst, M., Hörtnagl, L., Ibrom, A., Joly, L., Kljun, N., Kolle, O., Kowalski, A., Lindroth, A., Loustau, D., Mammarella, I., Mauder, M., Merbold, L., Metzger, S., Mölder, M., Montagnani, L., Papale, D., Pavelka, M., Peichl, M., Roland, M., Serrano-Ortiz, , Serrano-Ortiz, P., Siebicke, L., Steinbrecher, R., Tuovinen, J.-P., Vesala, T., Wohlfahrt, G., Franz, D.** (2018):
ICOS eddy covariance flux-station site setup: a review
Int. Agrophys. **32** (4), 471 - 494
631. Rehage, N., Davydova, E., Conrad, C., Behrens, G., Maiser, A., Stehklein, J.E., Brenner, S., Klein, J., Jeridi, A., **Hoffmann, A., Lee, E., Dianzani, U., Willemsen, R., Feederle, R., Reiche, K., Hackermüller, J., Leonhardt, H., Sharma, S., Niessing, D., Heissmeyer, V.** (2018):
Binding of NUFIP2 to Roquin promotes recognition and regulation of ICOS mRNA
Nat. Commun. **9** , art. 299
632. **Reißmann, D., Thrän, D., Bezama, A.** (2018):
Key development factors of hydrothermal processes in Germany by 2030: A fuzzy logic analysis
Energies **11** (12), art. 3532
633. **Reißmann, D., Thrän, D., Bezama, A.** (2018):
How to identify suitable ways for the hydrothermal treatment of wet bio-waste? A critical review and methods proposal
Waste Manage. Res. **36** (10), 912 - 923
634. **Reißmann, D., Thrän, D., Bezama, A.** (2018):
Techno-economic and environmental suitability criteria of hydrothermal processes for treating biogenic residues: A SWOT analysis approach
J. Clean Prod. **200** , 293 - 304
635. **Reißmann, D., Thrän, D., Bezama, A.** (2018):
Hydrothermal processes as treatment paths for biogenic residues in Germany: A review of the technology, sustainability and legal aspects
J. Clean Prod. **172** , 239 - 252
636. **Renpenning, J., Horst, A., Schmidt, M., Gehre, M.** (2018):
Online isotope analysis of $^{37}\text{Cl}/^{35}\text{Cl}$ universally applied for semi-volatile organic compounds using GC-MC-ICPMS
J. Anal. At. Spectrom. **33** (2), 314 - 321

637. Reusch, T.B.H., Dierking, J., Andersson, H.C., Bonsdorff, E., Carstensen, J., Casini, M., Czajkowski, M., Hasler, B., Hinsby, K., Hyttiäinen, K., Johannesson, K., **Jomaa, S.**, Jormalainen, V., Kuosa, H., Kurland, S., Laikre, L., MacKenzie, B.R., Margonski, P., Melzner, F., Oesterwind, D., Ojaveer, H., Refsgaard, J.C., Sandström, A., Schwarz, G., Tonderski, K., Winder, M., Zandersen, M. (2018): The Baltic Sea as a time machine for the future coastal ocean
Sci. Adv. **4** (5), eaar8195
638. Reyes-García, V., Gallois, S., Díaz-Reviriego, , **Díaz-Reviriego, I.**, Fernández-Llamazares, A., Napitupulu, L. (2018): Dietary patterns of children on three indigenous societies
J. Ethnobiol. **38** (2), 244 - 260
639. **Richter, A., Hauck, J., Feldmann, R., Kühn, E., Harpke, A., Hirneisen, N., Mahla, A., Settele, J., Bonn, A.** (2018): The social fabric of citizen science - drivers for long-term engagement in the German butterfly monitoring scheme
J. Insect Conserv. **22** (5-6), 731 - 743
640. Rieb, J.T., Chaplin-Kramer, R., Daily, G.C., Armsworth, P.R., Böhning-Gaese, K., **Bonn, A.**, Cumming, G.S., Eigenbrod, F., **Grimm, V.**, Jackson, B.M., Marques, A., Pattanayak, S.K., Pereira, H.M., Peterson, G.D., Ricketts, T.H., Robinson, B.E., **Schröter, M.**, Schulte, L.A., **Seppelt, R.**, Turner, M.G., Bennett, E.M. (2018): Response to Kabisch and colleagues
Bioscience **68** (3), 167 - 168
641. **Rink, D., Haase, A.** (2018): Wayne K.D. Davies (ed.) 2015: *Theme cities: solutions for urban problems*. London: Springer (GeoJournal Library No. 112). Book review
Int. J. Urban Reg. Res. **42** (1), 174 - 175
642. **Rink, D., Koch, F.** (2018): Der Umzug der Menschheit: Die transformative Kraft der Städte
disP - The Planning Review **54** (1), 77 - 77
643. **Rink, K., Chen, C., Bilke, L., Liao, Z., Rinke, K., Frassl, M., Yue, T., Kolditz, O.** (2018): Virtual geographic environments for water pollution control
Int. J. Digit. Earth **11** (4), 397 - 407
644. Ríos-Saldaña, C.A., Delibes-Mateos, M., **Ferreira, C.C.** (2018): Are fieldwork studies being relegated to second place in conservation science?
Glob. Ecol. Conserv. **14** , e00389

645. Ritschel, T., **Schlüter, S.**, Köhne, J.M., Vogel, H.-J., Totsche, K.U. (2018): Efficient prediction of multidomain flow and transport in hierarchically structured porous media
Water Resour. Res. **54** (11), 9033 - 9044
646. Ritscher, A., Wang, Z., Scheringer, M., Boucher, J.M., Ahrens, L., **Berger, U.**, Bintein, S., Bopp, S.K., Borg, D., Buser, A.M., Cousins, I., DeWitt, J., Fletcher, T., Green, C., Herzke, D., Higgins, C., Huang, J., Hung, H., Knepper, T., Lau, C.S., Leinala, E., Lindstrom, A.B., Liu, J., Miller, M., Ohno, K., Perkola, N., Shi, Y., Haug, L.S., Trier, X., Valsecchi, S., van der Jagt, K., Vierke, L. (2018): Zürich statement on future actions on per- and polyfluoroalkyl substances (PFASs)
Environ. Health Perspect. **126** (8), art. 084502
647. Rocchini, D., Luque, S., Pettorelli, N., Bastin, L., **Doktor, D.**, Faedi, N., Feilhauer, H., Féret, J.-B., Foody, G.M., Gavish, Y., Godinho, S., Kunin, W.E., **Lausch, A.**, Leitão, P.J., Marcantonio, M., Neteler, M., Ricotta, C., Schmidlein, S., Vihervaara, P., Wegmann, M., Nagendra, H. (2018): Measuring β-diversity by remote sensing: A challenge for biodiversity monitoring
Methods Ecol. Evol. **9** (8), 1787 - 1798
648. **Rode, M.**, Op de Hipt, F., Collins, A.L., Zhang, Y., **Theuring, P.**, Schkade, U.K., Diekkrüger, B. (2018): Subsurface sources contribute substantially to fine-grained suspended sediment transported in a tropical West African watershed, Burkina Faso
Land Degrad. Dev. **29** (11), 4092 - 4105
649. **Rode, M.**, Völker, J., Grau, T., Borchardt, D., Trepel, M., Ollesch, G. (2018): Evaluierung von Nährstoffbilanzmodellen für die zukünftige Flussgebietsbewirtschaftung
Wasser und Abfall **20** (3), 41 - 48
650. **Rode, M.**, Völker, J., Grau, T., Borchardt, D., Trepel, M., Ollesch, G. (2018): Empfehlungen für die Nährstoff-bilanzmodellierung im Rahmen der Flussgebietsbewirtschaftung
Wasser und Abfall **20** (5), 50 - 55
651. **Rödig, E.**, Cuntz, M., Rammig, A., **Fischer, R.**, Taubert, F., Huth, A. (2018): The importance of forest structure for carbon fluxes of the Amazon rainforest
Environ. Res. Lett. **13** (5), art. 054013
652. **Rodrigo Quejigo, J.**, Rosa, L.F.M., Harnisch, F. (2018): Electrochemical characterization of bed electrodes using voltammetry of single granules
Electrochim. Commun. **90** , 78 - 82

653. **Roland, U., Holzer, F., Trommler, U., Höhlig, B., Kraus, M., Hoyer, C.** (2018):
Arrangements for radio-frequency heating of building structures
Compel-Int. J. Comp. Math. Electr. **37** (6), 1933 - 1942
654. Rosche, C., Schrieber, K., Lachmuth, S., **Durka, W.**, Hirsch, H., Wagner, V., Schleuning, M., Hensen, I. (2018):
Sex ratio rather than population size affects genetic diversity in *Antennaria dioica*
Plant Biol. **20** (4), 789 - 796
655. **Roscher, C.**, Gubsch, M., Lipowsky, A., Schumacher, J., Weigelt, A., Buchmann, N., Schulze, E.-D., Schmid, B. (2018):
Trait means, trait plasticity and trait differences to other species jointly explain species performances in grasslands of varying diversity
Oikos **127** (6), 855 - 865
656. **Roscher, C.**, Schumacher, J., Gubsch, M., Lipowsky, A., Weigelt, A., Buchmann, N., Schmid, B., Schulze, E.-D. (2018):
Origin context of trait data matters for predictions of community performance in a grassland biodiversity experiment
Ecology **99** (5), 1214 - 1226
657. **Roscher, C.**, Schumacher, J., Gubsch, M., Lipowsky, A., Weigelt, A., Buchmann, N., Schulze, E.-D., Schmid, B. (2018):
Interspecific trait differences rather than intraspecific trait variation increase the extent and filling of community trait space with increasing plant diversity in experimental grasslands
Perspect. Plant Ecol. Evol. Syst. **33**, 42 - 50
658. **Roscher, C.**, Schumacher, J., Lipowsky, A., Gubsch, M., Weigelt, A., Schmid, B., Buchmann, N., Schulze, E.-D. (2018):
Functional groups differ in trait means, but not in trait plasticity to species richness in local grassland communities
Ecology **99** (10), 2295 - 2307
659. Rotaru, A.-E., **Calabrese, F.**, Stryhanyuk, H., **Musat, F.**, Shrestha, P.M., Weber, H.S., Snoeyenbos-West, O.L.O., Hall, P.O.J., **Richnow, H.H.**, **Musat, N.**, Thamdrup, B. (2018):
Conductive particles enable syntrophic acetate oxidation between *Geobacter* and *Methanosarcina* from coastal sediments
mBio **9** (3), e00226-18
660. Rubin, Y., Chang, C.-F., Chen, J., Cucchi, K., Harken, B., **Heße, F.**, Savoy, H. (2018):
Stochastic hydrogeology's biggest hurdles analyzed and its big blind spot
Hydrol. Earth Syst. Sci. **22** (11), 5675 - 5695

661. Rübsam, H., Kirsch, F., Reimann, V., Erban, A., Kopka, J., Hagemann, M., Hess, W.R., **Klähn, S.** (2018):
The iron-stress activated RNA 1 (IsaR1) coordinates osmotic acclimation and iron starvation responses in the cyanobacterium *Synechocystis* sp. PCC 6803
Environ. Microbiol. **20** (8), 2757 - 2768
662. Rüffel, V., Maar, M., Dammbrück, M.N., Hauröder, B., **Neu, T.R.**, Meier, J. (2018):
Thermodesulfobium sp. strain 3baa, an acidophilic sulfate reducing bacterium forming biofilms triggered by mineral precipitation
Environ. Microbiol. **20** (10), 3717 - 3731
663. **Rumm, A.**, Foeckler, F., Dziock, F., Ilg, C., **Scholz, M.**, **Harris, R.M.B.**, Gerisch, M. (2018):
Shifts in mollusc traits following floodplain reconnection: Testing the response of functional diversity components
Freshw. Biol. **63** (6), 505 - 517
664. **Rupp, H., Meissner, R.**, Leinweber, P. (2018):
Plant available phosphorus in soil as predictor for the leaching potential: Insights from long-term lysimeter studies
Ambio **47** (Suppl. 1), 103 - 113
665. Russel, M., Sophocleous, M., JiaJia, S., Xu, W., Xiao, L., **Maskow, T.**, Alam, M., Georgiou, J. (2018):
High-frequency, dielectric spectroscopy for the detection of electrophysiological/biophysical differences in different bacteria types and concentrations
Anal. Chim. Acta **1028** , 86 - 95
666. **Russo, R., Becker, J.M., Liess, M.** (2018):
Sequential exposure to low levels of pesticides and temperature stress increase toxicological sensitivity of crustaceans
Sci. Total Environ. **610-611** , 563 - 569
667. **Russo, R., Haange, S.-B., Rolle-Kampczyk, U., von Bergen, M., Becker, J.M., Liess, M.** (2018):
Identification of pesticide exposure-induced metabolic changes in mosquito larvae
Sci. Total Environ. **643** , 1533 - 1541

668. Saarikoski, H., Primmer, E., Saarela, S.-R., Antunes, P., Aszalós, R., Baró, F., Berry, P., Blanko, G.G., Goméz-Baggethun, E., Carvalho, L., Dick, J., Dunford, R., Hanzu, M., Harrison, P.A., Izakovicova, Z., Kertész, M., Koppenothen, L., Köhler, B., Langemeyer, J., Lapola, D., Liquete, C., Luque, S., Mederly, P., Niemelä, J., Palomo, I., Martinez Pastur, G., Peri, P.L., Preda, E., **Priess, J.A.**, Santos, R., Schleyer, C., Turkelboom, F., Vadineanu, A., Verheyden, W., Vikström, S., Young, J. (2018):
Institutional challenges in putting ecosystem service knowledge in practice
Ecosystem Services **29** (Part c), 579 - 598
669. Sabbatini, S., Mammarella, I., Arriga, N., Fratini, G., Graf, A., Hörtnagl, L., Ibrom, A., Longdoz, B., Mauder, M., Merbold, L., Metzger, S., Montagnani, L., Pitacco, A., **Rebmann, C.**, Sedlák, P., Šigut, L., Vitale, D., Papale, D. (2018):
Eddy covariance raw data processing for CO₂ and energy fluxes calculation at ICOS ecosystem stations
Int. Agrophys. **32** (4), 495 - 515
670. Sackmann, K., **Reemtsma, T.**, Rahmberg, M., Bunke, D. (2018):
Impact of European chemicals regulation on the industrial use of plasticizers and patterns of substitution in Scandinavia
Environ. Int. **119** , 346 - 352
671. Sadeghi, S.M.M., Van Stan, J.T., Pypker, T.G., Tamjidi, J., **Friesen, J.**, Farahnaklangroudi, M. (2018):
Importance of transitional leaf states in canopy rainfall partitioning dynamics
Eur. J. For. Res. **137** (1), 121 - 130
672. Saleem, H., Rehman, K., **Arslan, M.**, Afzal, M. (2018):
Enhanced degradation of phenol in floating treatment wetlands by plant-bacterial synergism
Int. J. Phytoremediat. **20** (7), 692 - 698
673. **Samaniego, L.**, Thober, S., Kumar, R., Wanders, N., Rakovec, O., Pan, M., **Zink, M.**, Sheffield, J., Wood, E.F., **Marx, A.** (2018):
Anthropogenic warming exacerbates European soil moisture droughts
Nat. Clim. Chang. **8** (5), 421 - 426
674. Sann, C., Theodorou, P., Heong, K.L., Villareal, S., **Settele, J.**, Vidal, S., Westphal, C. (2018):
Hopper parasitoids do not significantly benefit from non-crop habitats in rice production landscapes
Agric. Ecosyst. Environ. **254** , 224 - 232

675. Santos, S., Eekhout, I., Voerman, I., Gaillard, R., Barros, H., Charles, M.-A., Chatzi, L., Chevrier, C., Chrouzos, G.P., Corpeleijn, E., Costet, N., Crozier, S., Doyon, M., Eggesbø, M., Fantini, M.P., Farchi, S., Forastiere, F., Gagliardi, L., Georgiu, V., Godfrey, K.M., Gori, D., Grote, V., Hanke, W., Hertz-Pannier, I., Heude, B., Hivert, M.-F., Hryhorczuk, D., Huang, R.-C., Inskip, H., Jusko, T.A., Karvonen, A.M., Koletzko, B., Küpers, L.K., Lagström, H., Lawlor, D.A., **Lehmann, I.**, Lopez-Espinosa, M.-J., Magnus, P., Majewska, R., Mäkelä, J., Manios, Y., McDonald, S.W., Mommers, M., Morgen, C.S., Moschonis, G., Murínová, L., Newnham, J., Nohr, E.A., Nybo Andersen, A.-M., Oken, E., Oostvogels, A.J.J.M., Pac, A., Papadopoulou, E., Pekkanen, J., Pizzi, C., Polanska, K., Porta, D., Richiardi, L., Rifas-Shiman, S.-L., Roeleveld, N., Santa-Marina, L., Santos, A.C., Smit, H.A., Sørensen, T.I.A., Standl, M., Stanislawska, M., Stoltenberg, C., Thiering, E., Thijs, C., Torrent, M., Tough, S.C., Trnovec, T., van Gelder, M.M.H.J., van Rossem, L., von Berg, A., Vrijheid, M., Vrijkotte, T.G.M., Zvinchuk, O., van Buuren, S., Jaddoe, V.W.V. (2018): Gestational weight gain charts for different body mass index groups for women in Europe, North America, and Oceania
BMC Med. **16**, art. 201
676. Sarathchandra, C., **Kambach, S.**, Ariyarthna, S.C., Xu, J., Harrison, R.D., Wickramasinghe, S. (2018): Significance of mangrove biodiversity conservation in fishery production and living conditions of coastal communities in Sri Lanka
Diversity **10** (2), art. 20
677. **Sattler, C.**, Schrader, J., Farkas, V.M., **Settele, J.**, **Franzén, M.** (2018): Pesticide diversity in rice growing areas of Northern Vietnam
Paddy Water Environ. **16** (2), 339 - 352
678. **Sauer, U.**, **Borsdorf, H.**, **Dietrich, P.**, Liebscher, A., Möller, I., Martens, S., Möller, F., Schlömer, S., **Schütze, C.** (2018): Application of open-path Fourier transform infrared spectroscopy for atmospheric monitoring of a CO₂ back-production experiment at the Ketzin pilot site (Germany)
Environ. Monit. Assess. **190** (3), art. 114
679. Schaafsma, M., **Bartkowski, B.**, **Lienhoop, N.** (2018): Guidance for deliberative monetary valuation studies
International Review of Environmental and Resource Economics **12** (2-3), 267 - 323
680. Schäffer, A., **Kästner, M.**, Trapp, S. (2018): A unified approach for including non-extractable residues (NER) of chemicals and pesticides in the assessment of persistence
Environ. Sci. Eur. **30** (51), art. 51

681. Schaldach, R., Meurer, K.H.E., Jungkunst, H.F., Nendel, C., Lakes, T., Gollnow, F., Göpel, J., Boy, J., Guggenberger, G., Strey, R., Strey, S., Berger, T., Gerold, G., Schönenberg, R., Böhner, J., Schindewolf, M., Latynskiy, E., Hampf, A., Parker, P.S., Sentelhas, P.C. (2018):
A model-based assessment of the environmental impact of land-use change across scales in Southern Amazonia
Reg. Envir. Chang. **18** (1), 161 - 173
682. Schall, P., Gossner, M.M., Heinrichs, S., Fischer, M., Boch, S., Prati, D., Jung, K., Baumgartner, V., Blaser, S., Böhm, S., **Buscot, F.**, Daniel, R., **Goldmann, K.**, Kaiser, K., Kahl, T., Lange, M., Müller, J., Overmann, J., Renner, S.C., Schulze, E.-D., Sikorski, J., Tschapka, M., Türke, M., Weisser, W.W., Wemheuer, B., **Wubet, T.**, Ammer, C. (2018):
The impact of even-aged and uneven-aged forest management on regional biodiversity of multiple taxa in European beech forests
J. Appl. Ecol. **55** (1), 267 - 278
683. Scheepens, J.F., Lachmuth, S., **Michalski, S.G.** (2018):
Plant population biology in a changing world
Basic Appl. Ecol. **28** , 1 - 4
684. Scheftelowitz, M., **Becker, R.**, **Thrän, D.** (2018):
Improved power provision from biomass: A retrospective on the impacts of German energy policy
Biomass Bioenerg. **111** , 1 - 12
685. **Scheurer, L.**, **Haase, A.** (2018):
Diversity and social cohesion in European cities: making sense of today's European Union-urban nexus within cohesion policy
Eur. Urban Reg. Stud. **25** (3), 337 - 342
686. **Schicketanz, J.**, Grabenhenrich, L., Lakes, T. (2018):
An index for assessing activity friendliness for children in urban environments of Berlin
ERDE **149** (1), 1 - 13
687. Schlegelmilch, K., **Bonn, A.**, Schröder, A., **Schröter-Schlaack, C.**, **Hansjürgens, B.** (2018):
Naturbasierte Lösungen für Klimaschutz und Anpassung an den Klimawandel - Nutzen von Naturschutzmaßnahmen. Nature-based solutions for climate change mitigation and adaptation – Benefits of nature conservation measures
Nat. Landschaft **93** (12), 569 - 577
688. **Schlink, U.**, **Hertel, D.** (2018):
Inverse modelling of snow depths
Environ. Modell. Softw. **110** , 62 - 71

689. Schlitzer, R., Anderson, R.F., Dudas, E.M., Lohan, M., Geibert, W., Tagliabue, A., Bowie, A., Jeandel, C., Maldonado, M.T., Landing, W.M., Cockwell, D., Abadie, C., Abouchami, W., Achterberg, E.P., Agather, A., Aguliar-Islas, A., van Aken, H.M., Andersen, M., Archer, C., **Lechtenfeld, O.J.**, Auro, M., et al. (2018):
The GEOTRACES Intermediate Data Product 2017
Chem. Geol. **493**, 210 - 223
690. **Schlüter, S., Blaser, S.R.,** Weber, M., Schmidt, V., **Vetterlein, D.** (2018):
Quantification of root growth patterns from the soil perspective via root distance models
Front. Plant Sci. **9**, art. 1084
691. **Schlüter, S., Großmann, C., Diel, J., Wu, G.-M.,** Tischer, S., Deubel, A., Rücknagel, J. (2018):
Long-term effects of conventional and reduced tillage on soil structure, soil ecological and soil hydraulic properties
Geoderma **332**, 10 - 19
692. **Schlüter, S., Henjes, S., Zawallich, J., Bergaust, L., Horn, M.A., Ippisch, O., Vogel, H.-J., Dörsch, P.** (2018):
Denitrification in soil aggregate analogues—effect of aggregate size and oxygen diffusion
Frontiers in Environmental Science **6**, art. 17
693. **Schmeller, D.S., Loyau, A., Bao, D., Brack, W., Chatzinotas, A., De Vleeschouwer, F., Friesen, J., Gandois, L., Hansson, S.V., Haver, M., Le Roux, G., Shen, J., Teisserenc, R., Vredenburg, V.T.** (2018):
People, pollution and pathogens – Global change impacts in mountain freshwater ecosystems
Sci. Total Environ. **622-623**, 756 - 763
694. **Schmeller, D.S., Weatherdon, L.V., Loyau, A., Bondeau, A., Brotons, L., Brummitt, N., Geijzendorffer, I.R., Haase, P., Kuemmerlen, M., Martin, C.S., Mihoub, J.-B., Rocchini, D., Saarenmaa, H., Stoll, S., Regan, E.C.** (2018):
A suite of essential biodiversity variables for detecting critical biodiversity change
Biol. Rev. **93** (1), 55 - 71
695. **Schmidt, J., Hauck, J.** (2018):
Implementing green infrastructure policy in agricultural landscapes—scenarios for Saxony-Anhalt, Germany
Reg. Envir. Chang. **18** (3), 899 - 911

696. **Schmidt, J.R.**, Rücker-Braun, E., Heidrich, K., von Bonin, M., Stölzel, F., Thiede, C., Middeke, J.M., Ehninger, G., Bornhäuser, M., Schetelig, J., **Schubert, K.**, **von Bergen, M.**, Heidenreich, F. (2018):
Pilot study on mass spectrometry-based analysis of the proteome of CD34⁺CD123⁺ progenitor cells for the identification of potential targets for immunotherapy in acute myeloid leukemia
Proteomes **6** (1), art. 11
697. Schmidt, S.I., Kreft, J.-U., Mackay, R., Picioreanu, C., **Thullner, M.** (2018):
Elucidating the impact of micro-scale heterogeneous bacterial distribution on biodegradation
Adv. Water Resour. **116**, 67 - 76
698. **Schmidt, S.**, **Seppelt, R.** (2018):
Information content of global ecosystem service databases and their suitability for decision advice
Ecosystem Services **32** (Part A), 22 - 40
699. Schneider, J., Struve, M., **Trommler, U.**, Schlüter, M., Seidel, L., Dietrich, S., Rönsch, S. (2018):
Performance of supported and unsupported Fe and Co catalysts for the direct synthesis of light alkenes from synthesis gas
Fuel Process. Technol. **170**, 64 - 78
700. **Scholz, S.**, **Schreiber, R.**, Armitage, J., Mayer, P., **Escher, B.I.**, **Lidzba, A.**, Léonard, M., **Altenburger, R.** (2018):
Meta-analysis of fish early life stage tests—Association of toxic ratios and acute-to-chronic ratios with modes of action
Environ. Toxicol. Chem. **37** (4), 955 - 969
701. **Schöps, R.**, **Goldmann, K.**, Herz, K., **Lentendu, G.**, Schöning, I., Bruelheide, H., **Wubet, T.**, **Buscot, F.** (2018):
Land-use intensity rather than plant functional identity shapes bacterial and fungal rhizosphere communities
Front. Microbiol. **9**, art. 2711
702. Schrader, J., **Franzén, M.**, **Sattler, C.**, Ferderer, P., Westphal, C. (2018):
Woody habitats promote pollinators and complexity of plant–pollinator interactions in homegardens located in rice terraces of the Philippine Cordilleras
Paddy Water Environ. **16** (2), 253 - 263
703. **Schrön, M.**, Rosolem, R., Köhli, M., Piussi, L., **Schröter, I.**, Iwema, J., **Kögler, S.**, Oswald, S.E., **Wollschläger, U.**, Samaniego, L., Dietrich, P., Zacharias, S. (2018):
Cosmic-ray neutron rover surveys of field soil moisture and the influence of roads
Water Resour. Res. **54** (9), 6441 - 6459

704. **Schrön, M., Zacharias, S., Womack, G., Köhli, M., Desilets, D., Oswald, S.E., Bumberger, J., Mollenhauer, H., Kögler, S., Remmler, P., Kasner, M., Denk, A., Dietrich, P.** (2018):
Intercomparison of cosmic-ray neutron sensors and water balance monitoring in an urban environment
Geosci. Instrum. Method. Data Syst. **7** (1), 83 - 99
705. Schröter, B., **Hauck, J.**, Hackenberg, I., Matzdorf, B. (2018):
Bringing transparency into the process: Social network analysis as a tool to support the participatory design and implementation process of Payments for Ecosystem Services
Ecosystem Services **34** (Part B), 206 - 217
706. Schröter, B., Matzdorf, B., Hackenberg, I., **Hauck, J.** (2018):
More than just linking the nodes: civil society actors as intermediaries in the design and implementation of payments for ecosystem services—the case of a blue carbon project in Costa Rica
Local Environment **23** (6), 635 - 651
707. **Schröter, M.**, Koellner, T., Alkemade, R., Arnhold, S., Bagstad, K.J., Erb, K.-H., **Frank, K.**, Kastner, T., Kissinger, M., Liu, J., López-Hoffman, L., Maes, J., Marques, A., Martín-López, B., Meyer, C., Schulp, C.J.E., **Thober, J.**, Wolff, S., **Bonn, A.** (2018):
Interregional flows of ecosystem services: Concepts, typology and four cases
Ecosystem Services **31** (Part B), 231 - 241
708. **Schröter-Schlaack, C., Lienhoop, N., Ferber, U., Hansjürgens, B., Stöcker, U., Sunken, S.** (2018):
Förderung von Stadtnatur: Ergebnisse eines Stakeholder-Workshops. How to promote urban nature: insights from a stakeholder workshop
Nat. Landschaft **93** (3), 114 - 119
709. Schubert, H., Blindow, I., Schories, D., **Mages, M.**, **von Tümpeling, W.**, Woelfl, S. (2018):
Biogeography of Chilean Charophytes – determined by climate or by water chemistry?
Botany Lett. **165** (1), 129 - 145
710. **Schubert, M., Musolff, A., Weiss, H.** (2018):
Influences of meteorological parameters on indoor radon concentrations (^{222}Rn) excluding the effects of forced ventilation and radon exhalation from soil and building materials
J. Environ. Radioact. **192** , 81 - 85
711. **Schubert, M., Oberreich, M., Scholten, J.** (2018):
Preparation of MnO₂ coated fibers for gamma spectrometric measurements - A comparison of four practical approaches
J. Environ. Radioact. **189** , 197 - 201

712. Schubert, T., **Adrian, L.**, Sawers, R.G., Diekert, G. (2018):
Organohalide respiratory chains: composition, topology and key enzymes
FEMS Microbiol. Ecol. **94** (4), fiy035
713. Schuldt, A., Assmann, T., Brezzi, M., **Buscot, F.**, Eichenberg, D., **Gutknecht, J.**, Härdtle, W., He, J.-S., Klein, A.-M., Kühn, P., Liu, X., Ma, K., Niklaus, P.A., Pietsch, K.A., **Purahong, W.**, Scherer-Lorenzen, M., Schmid, B., Scholten, T., Staab, M., Tang, Z., Trogisch, S., von Oheimb, G., Wirth, C., **Wubet, T.**, Zhu, C.-D., Bruelheide, H. (2018):
Biodiversity across trophic levels drives multifunctionality in highly diverse forests
Nat. Commun. **9**, art. 2989
714. **Schulte-Römer, N.** (2018):
Extraordinary LED installations: events for user–innovation interaction
Ind. Innov. **25** (7), 699 - 727
715. Schulz, B., **Durka, W.**, Danihelka, J., Eckstein, R.L. (2018):
Differential role of a persistent seed bank for genetic variation in early vs. late successional stages
PLOS One **13** (12), e0209840
716. Schulze, E.D., Bouriaud, O., Weber, U., **Roscher, C.**, Hessenmoeller, D., Kroher, F., Schall, P. (2018):
Management breaks the natural productivity-biodiversity relationship in forests and grassland: an opinion
For. Ecosyst. **5**, art. 3
717. Schulze, J., **Kuhn, S.**, Hendrikx, S., Schulz-Siegmund, M., **Polte, T.**, Aigner, A. (2018):
Spray-dried nanoparticle-in-microparticle delivery systems (NiMDS) for gene delivery, comprising polyethylenimine (PEI)-based nanoparticles in a poly(vinyl alcohol) matrix
Small **14** (12), art. 1701810
718. **Schulze, S.**, Sättler, D., Neumann, M., Arp, H.P.H., **Reemtsma, T.**, Berger, U. (2018):
Using REACH registration data to rank the environmental emission potential of persistent and mobile organic chemicals
Sci. Total Environ. **625**, 1122 - 1128
719. Schutkowski, A., Max, D., **Bönn, M.**, Brandsch, C., Grundmann, S.M., Hirche, F., Staegge, M.S., Stangl, G.I. (2018):
Vitamin D does not play a functional role in adipose tissue development in rodent models
Mol. Nutr. Food Res. **62** (4), art. 1700726

720. Schweizer, S.A., Hoeschen, C., **Schlüter, S.**, Kögel-Knabner, I., Mueller, C.W. (2018): Rapid soil formation after glacial retreat shaped by spatial patterns of organic matter accrual in microaggregates
Glob. Change Biol. **24** (4), 1637 - 1650
721. Schymanski, E., Ruttkies, C., Hollender, J., Neumann, S., **Krauss, M.** (2018): Hydrogen deuterium exchange of environmental samples to improve non-target elucidation
Abstr. Paper Am. Chem. Soc. **255**, art. 738
722. Schymanski, E., Stravs, M., **Schulze, T.**, Williams, A. (2018): Automated structure annotation and curation for MassBank: Potential and pitfalls
Abstr. Paper Am. Chem. Soc. **255**, art. 32
723. Seebens, H., Blackburn, T.M., Dyer, E.E., Genovesi, P., Hulme, P.E., Jeschke, J.M., Pagad, S., Pyšek, P., van Kleunen, M., Winter, M., Ansong, M., Arianoutsou, M., Bacher, S., Blasius, B., Brockerhoff, E.G., Brundu, G., Capinha, C., Causton, C.E., Celesti-Grapow, L., Dawson, W., Dullinger, S., Economo, E.P., Fuentes, N., Guénard, B., Jäger, H., Kartesz, J., Kenis, M., **Kühn, I.**, Lenzner, B., Liebold, A.M., Mosen, A., Moser, D., Nentwig, W., Nishino, M., Pearman, D., Pergl, J., Rabitsch, W., Rojas-Sandoval, J., Roques, A., Rorke, S., Rossinelli, S., Roy, H.E., Scalera, R., Schindler, S., Štajerová, K., Tokarska-Guzik, B., Walker, K., Ward, D.F., Yamanaka, T., Essl, F. (2018): Global rise in emerging alien species results from increased accessibility of new source pools
Proc. Natl. Acad. Sci. U.S.A. **115** (10), E2264 - E2273
724. **Seidel, K.**, **Kühnert, J.**, **Adrian, L.** (2018): The complexome of *Dehalococcoides mccartyi* reveals its organohalide respiration-complex is modular
Front. Microbiol. **9**, art. 1130
725. **Seppelt, R.**, **Beckmann, M.**, **Václavík, T.**, **Volk, M.** (2018): The art of scientific performance
Trends Ecol. Evol. **33** (11), 805 - 809
726. **Seppelt, R.**, Verburg, P.H., Norström, A., Cramer, W., **Václavík, T.** (2018): Focus on cross-scale feedbacks in global sustainable land management
Environ. Res. Lett. **13** (9), art. 090402

727. **Settele, J.**, Heong, K.L., **Kühn, I.**, **Klotz, S.**, **Spangenberg, J.H.**, Arida, G., Beaurepaire, A., **Beck, S.**, Bergmeier, E., Burkhard, B., Brandl, R., Bustamante, J.V., Butler, A., Cabbigat, J., Le, X.C., Catindig, J.L.A., Ho, V.C., Le, Q.C., Dang, K.B., Escalada, M., **Dominik, C.**, **Franzén, M.**, Fried, O., **Görg, C.**, **Grescho, V.**, **Grossmann, S.**, Gurr, G.M., Hadi, B.A.R., Le, H.H., **Harpke, A.**, Hass, A.L., Hirneisen, N., Horgan, F.G., Hotes, S., Isoda, Y., Jahn, R., Kettle, H., **Klotzbücher, A.**, Klotzbücher, T., Langerwisch, F., Loke, W.-H., Lin, Y.-P., Lu, Z., Lum, K.-Y., Magcale-Macandog, D.B., Marion, G., Marquez, L., Müller, F., Nguyen, H.M., Nguyen, Q.A., Nguyen, V.S., **Ott, J.**, Penev, L., Pham, H.T., Radermacher, N., Rodriguez-Labajos, B., Sann, C., **Sattler, C.**, **Schädler, M.**, Scheu, S., **Schmidt, A.**, Schrader, J., **Schweiger, O.**, **Seppelt, R.**, Soitong, K., Stoev, P., Stoll-Kleemann, S., Tekken, V., Thonicke, K., Tilliger, B., Tobias, K., Trisyono, Y.A., Dao, T.T., Tscharntke, T., Le, Q.T., Türke, M., **Václavík, T.**, **Vetterlein, D.**, Villareal, S., Vu, K.C., **Vu, Q.**, Weisser, W.W., Westphal, C., Zhu, Z., **Wiemers, M.** (2018):
Rice ecosystem services in South-east Asia. Editorial
Paddy Water Environ. **16** (2), 211 - 224
728. **Settele, J.**, Settle, W.H. (2018):
Conservation biological control: Improving the science base
Proc. Natl. Acad. Sci. U.S.A. **115** (33), 8241 - 8243
729. Shahid, M.J., **Arslan, M.**, Ali, S., Siddique, M., Afzal, M. (2018):
Floating wetlands: a sustainable tool for wastewater treatment
CLEAN-Soil Air Water **46** (10), art. 1800120
730. **Shahid, N.**, **Becker, J.M.**, **Krauss, M.**, **Brack, W.**, **Liess, M.** (2018):
Adaptation of *Grammarus pulex* to agricultural insecticide contamination in streams
Sci. Total Environ. **621** , 479 - 485
731. **Shahid, N.**, **Becker, J.M.**, **Krauss, M.**, **Brack, W.**, **Liess, M.** (2018):
Pesticide body burden of the crustacean *Grammarus pulex* as a measure of toxic pressure in agricultural streams
Environ. Sci. Technol. **52** (14), 7823 - 7832
732. Shahryari, S., Zahiri, H.S., Haghbeen, K., **Adrian, L.**, Noghabi, K.A. (2018):
High phenol degradation capacity of a newly characterized *Acinetobacter* sp. SA01:
Bacterial cell viability and membrane impairment in respect to the phenol toxicity
Ecotox. Environ. Safe. **164** , 455 - 466
733. **Shan, Y.**, **Harms, H.**, **Wick, L.Y.** (2018):
Electric field effects on bacterial deposition and transport in porous media
Environ. Sci. Technol. **52** (24), 14294 - 14301

734. Sharma, A., **Schmidt, M.**, Kiesel, B., Mahato, N.K., Cralle, L., Singh, Y., **Richnow, H.H.**, Gilbert, J.A., Arnold, W., Lal, R. (2018):
Bacterial and archaeal viruses of Himalayan hot springs at Manikaran modulate host genomes
Front. Microbiol. **9**, art. 3095
735. Shentsis, I., Inbar, N., Rosenthal, E., **Magri, F.** (2018):
Numerical representation of rainfall field in basins of the Upper Jordan River and of the Yarmouk River
Environ. Earth Sci. **77**, art. 798
736. Shrestha, S., Bhatta, B., Shrestha, M., **Shrestha, P.K.** (2018):
Integrated assessment of the climate and landuse change impact on hydrology and water quality in the Songkhram River Basin, Thailand
Sci. Total Environ. **643**, 1610 - 1622
737. Shugart, H.H., Wang, B., **Fischer, R.**, Ma, J., Fang, J., Yan, X., **Huth, A.**, Armstrong, A.H. (2018):
Gap models and their individual-based relatives in the assessment of the consequences of global change
Environ. Res. Lett. **13** (3), art. 033001
738. **Siebert, A.**, Bezama, A., O'Keeffe, S., Thrän, D. (2018):
Social life cycle assessment: in pursuit of a framework for assessing wood-based products from bioeconomy regions in Germany
Int. J. Life Cycle Assess. **23** (3), 651 - 662
739. **Siebert, A.**, Bezama, A., O'Keeffe, S., Thrän, D. (2018):
Social life cycle assessment indices and indicators to monitor the social implications of wood-based products
J. Clean Prod. **172**, 4074 - 4084
740. **Siebert, A.**, O'Keeffe, S., Bezama, A., Zeug, W., Thrän, D. (2018):
How not to compare apples and oranges: Generate context-specific performance reference points for a social life cycle assessment model
J. Clean Prod. **198**, 587 - 600
741. Silver, M., **Knöller, K.**, Schlägl, J., Kübeck, C., Schüth, C. (2018):
Nitrogen cycling and origin of ammonium during infiltration of treated wastewater for managed aquifer recharge
Appl. Geochem. **97**, 71 - 80

742. **Singer, A., Schweiger, O., Kühn, I., Johst, K.** (2018):
Constructing a hybrid species distribution model from standard large-scale distribution data
Ecol. Model. **373**, 39 - 52
743. Singer-Brodowski, M., Grossmann, K., **Bartke, S.**, Huning, S., Weinsziehr, T., **Hagemann, N.** (2018):
Competency-oriented education for sustainable development: Lessons from five courses on energy poverty
Int. J. Sustain. High. Educ. **19** (7), 1299 - 1316
744. **Singh, J.**, Singh, S., Bhat, S.A., Vig, A.P., **Schädler, M.** (2018):
Eco-friendly method for the extraction of earthworms: Comparative account of formalin, AITC and *Allium cepa* as extractant
Appl. Soil Ecol. **124**, 141 - 145
745. **Singh, J.**, Singh, S., Vig, A.P., Bhat, S.A., Hundal, S.S., **Yin, R.** (2018):
Conventional farming reduces the activity of earthworms: Assessment of genotoxicity test of soil and vermicast
Agriculture and Natural Resources **52**, 366 - 370
746. Sjoeholm, K.K., Schmidt, S.N., **Jahnke, A.**, Svensmark, B., Mayer, P. (2018):
Equilibrium sampling reveals increasing thermodynamic potential of polycyclic aromatic hydrocarbons during sewage sludge digestion
Chemosphere **207**, 421 - 429
747. Sobanska, M., **Scholz, S.**, Nyman, A.-M., Cesnaitis, R., Gutierrez Alonso, S., **Klüver, N.**, **Kühne, R.**, Tyle, H., de Knecht, J., Dang, Z., Lundbergh, I., Carlon, C., De Coen, W. (2018):
Applicability of the fish embryo acute toxicity (FET) test (OECD 236) in the regulatory context of Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH)
Environ. Toxicol. Chem. **37** (3), 657 - 670
748. Sohn, S.Y., **Kuntze, K.**, **Nijenhuis, I.**, Häggblom, M.M. (2018):
Evaluation of carbon isotope fractionation during anaerobic reductive dehalogenation of chlorinated and brominated benzenes
Chemosphere **193**, 785 - 792
749. Soja, G., Wimmer, B., Rosner, F., Faber, F., Dersch, G., **von Chamier, J.**, Pardeller, G., Ameur, D., Keiblinger, K., Zehetner, F. (2018):
Compost and biochar interactions with copper immobilisation in copper-enriched vineyard soils
Appl. Geochem. **88** (Part A), 40 - 48

750. Sonnberger, M., **Gross, M.** (2018):
Rebound effects in practice: an invitation to consider rebound from a practice theory perspective
Ecol. Econ. **154**, 14 - 21
751. Soofi, M., Ghoddousi, A., Zeppenfeld, T., Shokri, S., Soufi, M., Jafari, A., Ahmadpour, M., Qashqaei, A.T., **Egli, L.**, Ghadirian, T., Chahartaghi, N.R., Zehzad, B., Kiabi, B.H., Khorozyan, I., Balkenhol, N., Waltert, M. (2018):
Livestock grazing in protected areas and its effects on large mammals in the Hyrcanian forest, Iran
Biol. Conserv. **217**, 377 - 382
752. Sousa, D.Z., Visser, M., van Gelder, A.H., Boeren, S., Pieterse, M.M., Pinkse, M.W.H., Verhaert, P.D.E.M., **Vogt, C.**, **Franke, S.**, **Kümmel, S.**, Stams, A.J.M. (2018):
The deep-subsurface sulfate reducer *Desulfotomaculum kuznetsovii* employs two methanol-degrading pathways
Nat. Commun. **9**, art. 239
753. **Spangenberg, J.H.** (2018):
Behind the scenarios: World view, ideologies, philosophies. An analysis of hidden determinants and acceptance obstacles illustrated by the ALARM scenarios
Sustainability **10** (7), art. 2556
754. **Spangenberg, J.H.**, Beaurepaire, A.L., Bergmeier, E., Burkhard, B., Chien, H.V., Cuong, L.Q., Görg, C., **Grescho, V.**, Hai, L.H., Heong, K.L., Horgan, F.G., Hotes, S., **Klotzbücher, A.**, Klotzbücher, T., **Kühn, I.**, Langerwisch, F., Marion, G., Moritz, R.F.A., Nguyen, Q.A., Ott, J., Sann, C., **Sattler, C.**, **Schädler, M.**, **Schmidt, A.**, Tekken, V., Thanh, T.D., Thonicke, K., Türke, M., **Václavík, T.**, **Vetterlein, D.**, Westphal, C., **Wiemers, M.**, **Settele, J.** (2018):
The LEGATO cross-disciplinary integrated ecosystem service research framework: an example of integrating research results from the analysis of global change impacts and the social, cultural and economic system dynamics of irrigated rice production
Paddy Water Environ. **16** (2), 287 - 319
755. **Spangenberg, J.H.**, Heong, K.L., **Klotzbücher, A.**, Klotzbücher, T., Nguyen, Q.A., Tekken, V., Truong, D.T., Türke, M., **Settele, J.** (2018):
Doing what with whom? Stakeholder analysis in a large transdisciplinary research project in South-East Asia
Paddy Water Environ. **16** (2), 321 - 337
756. **Stabenau, N.**, **Zehnsdorf, A.**, **Rönicke, H.**, Wedwitschka, H., **Moeller, L.**, Ibrahim, B., Stinner, W. (2018):
A potential phosphorous fertilizer for organic farming: recovery of phosphorous resources in the course of bioenergy production through anaerobic digestion of aquatic macrophytes
Energy Sustain. Soc. **8**, art. 16

757. **Stauder, R.**, Welsch, R., Camagna, M., Kohlen, W., Balcke, G.U., Tissier, A., Walter, M.H. (2018):
Strigolactone levels in dicot roots are determined by an ancestral symbiosis-regulated clade of the *PHYTOENE SYNTHASE* gene family
Front. Plant Sci. **9**, art. 255
758. Steinbauer, M.J., Grytnes, J.-A., Jurasiński, G., Kulonen, A., Lenoir, J., Pauli, H., Rixen, C., Winkler, M., Bardy-Durchohalter, M., Barni, E., Bjorkman, A.D., Breiner, F.T., Burg, S., Czortek, P., Dawes, M.A., Delimat, A., Dullinger, S., Erschbamer, B., Felde, V.A., Fernández-Arberas, O., Fossheim, K.F., Gómez-García, D., Georges, D., Grindrud, E.T., Haider, S., Haugum, S.V., Henriksen, H., Herreros, M.J., Jaroszewicz, B., Jaroszynska, F., Kanka, R., Kapfer, J., Klanderud, K., **Kühn, I.**, Lamprecht, A., Matteodo, M., Morra di Cella, U., Normand, S., Odland, A., Olsen, S.L., Palacio, S., Petey, M., Piscová, V., Sedlakova, B., Steinbauer, K., Stöckli, V., Svenning, J.-C., Teppa, G., Theurillat, J.-P., Vittoz, P., Woodin, S.J., Zimmermann, N.E., Wipf, S. (2018):
Accelerated increase in plant species richness on mountain summits is linked to warming
Nature **556** (7700), 231 - 234
759. **Steinicke, H., Pe'er, G., Henle, K.** (2018):
Abundance and survival rates of three leaf-litter frog species in fragments and continuous forest of the Mata Atlântica, Brazil
Nature Conservation-Bulgaria (26), 77 - 96
760. **Stoltenburg, R., Strehlitz, B.** (2018):
Refining the results of a classical SELEX experiment by expanding the sequence data set of an aptamer pool selected for Protein A
Int. J. Mol. Sci. **19** (2), art. 2
761. **Sträuber, H., Bühligen, F., Kleinstüber, S.**, Dittrich-Zechendorf, M. (2018):
Carboxylic acid production from ensiled crops in anaerobic solid-state fermentation - trace elements as pH controlling agents support microbial chain elongation with lactic acid
Eng. Life Sci. **18** (7), 447 - 458
762. **Strauch, G.** (2018):
Application of isotopes in the investigation of particulate matter (PM). Editorial
Isot. Environ. Health Stud. **54** (5), 449 - 450
763. **Strunz, S., Bartkowski, B.** (2018):
Degrowth, the project of modernity, and liberal democracy
J. Clean Prod. **196** , 1158 - 1168

764. **Strunz, S., Gawel, E.** (2018):
Die Tücken der transformativen Wissenschaft. The pitfalls of transformative science. Reaktion auf A. Grunwald in GAIA 27/1(2018): Transformative Forschung als *honest broker*? Das passt!
GAIA **27** (2), 205 - 206
765. **Strunz, S., Gawel, E., Lehmann, P.**, Söderholm, P. (2018):
Policy convergence as a multifaceted concept: the case of renewable energy policies in the European Union
J. Public Policy **38** (3), 361 - 387
766. **Strunz, S., Schindler, H.** (2018):
Identifying barriers toward a post-growth economy – a political economy view
Ecol. Econ. **153** , 68 - 77
767. **Stryhanyuk, H., Calabrese, F., Kümmel, S., Musat, F., Richnow, H.-H., Musat, N.** (2018):
Calculation of single cell assimilation rates from SIP-nanoSIMS-derived isotope ratios: a comprehensive approach
Front. Microbiol. **9** , art. 2342
768. Sturm, A., **Drechsler, M., Johst, K., Mewes, M.**, Wätzold, F. (2018):
DSS-Ecopay – A decision support software for designing ecologically effective and cost-effective agri-environment schemes to conserve endangered grassland biodiversity
Agric. Syst. **161** , 113 - 116
769. Stutter, M.I., **Graeber, D.**, Evans, C.D., Wade, A.J., Withers, P.J.A. (2018):
Balancing macronutrient stoichiometry to alleviate eutrophication
Sci. Total Environ. **634** , 439 - 447
770. **Stutzerstein, P., Weiner, B., Köhler, R., Pfeifer, C., Kopinke, F.-D.** (2018):
Wet oxidation of process water from hydrothermal carbonization of biomass with nitrate as oxidant
Chem. Eng. J. **339** , 1 - 6
771. **Sühnholz, S., Kopinke, F.-D., Weiner, B.** (2018):
Hydrothermal treatment for regeneration of activated carbon loaded with organic micropollutants
Sci. Total Environ. **644** , 854 - 861
772. Sullivan, L.L., **Clark, A.T.**, Tilman, D., Shaw, A.K. (2018):
Mechanistically-derived dispersal kernels explain species-level patterns of recruitment and succession
Ecology **99** (11), 2415 - 2420

773. Sun, Z., **Zheng, T.**, Xin, J., Zheng, X., Hu, R., Subhan, F., **Shao, H.** (2018): Effects of alkali-treated agricultural residues on nitrate removal and N₂O reduction of denitrification in unsaturated soil
J. Environ. Manage. **214**, 276 - 282
774. **Surun, C.**, **Drechsler, M.** (2018): Effectiveness of tradable permits for the conservation of metacommunities with two competing species
Ecol. Econ. **147**, 189 - 196
775. Susanto, N.H., Schoos, A.-M.M., Standl, M., Lowe, A.J., Dharmage, S.C., Svanes, C., Salim, A., von Berg, A., **Lehmann, I.**, Rasmussen, M.A., Werchan, M., Bergmann, K.-C., Lodge, C., Abramson, M.J., Heinrich, J., Bisgaard, H., Erbas, B. (2018): Environmental grass pollen levels *in utero* and at birth and cord blood IgE: Analysis of three birth cohorts
Environ. Int. **119**, 295 - 301
776. Sydow, M., Owsianik, M., Framski, G., Woźniak-Karczewska, M., Piotrowska-Cyplik, A., Ławniczak, Ł., Szulc, A., Zgoła-Grześkowiak, A., **Heipieper, H.J.**, Chrzanowski, Ł. (2018): Biodiversity of soil bacteria exposed to sub-lethal concentrations of phosphonium-based ionic liquids: Effects of toxicity and biodegradation
Ecotox. Environ. Safe. **147**, 157 - 164
777. Szarka, N., Wolfbauer, J., **Bezama, A.** (2018): A systems dynamics approach for supporting regional decisions on the energetic use of regional biomass residues
Waste Manage. Res. **36** (4), 332 - 341
778. Taillefer, A., Guillou-Frottier, L., Soliva, R., **Magri, F.**, Lopez, S., Courrioux, G., Millot, R., Ladouce, B., Le Goff, E. (2018): Topographic and faults control of hydrothermal circulation along dormant faults in an orogen
Geochem. Geophys. Geosyst. **19** (12), 4972 - 4995
779. Tallis, H., Hawthorne, P., Polasky, S., Reid, J., Beck, M., Brauman, K., Bielicki, J., Binder, S., Burgess, M., Cassidy, E., **Clark, A.T.**, Fargione, J., Game, E., Gerber, J., Isbell, F., Kiesecker, J., McDonald, R., Metian, M., Molnar, J., Mueller, N., O'Connell, C., Ovando, D., Troell, M., Boucher, T., McPeek, B. (2018): An attainable global vision for conservation and human well-being
Front. Ecol. Environ. **16** (10), 563 - 570

780. Tan, X., Hou, S., Georg, J., **Klähn, S.**, Lu, X., Hess, W.R. (2018):
The primary transcriptome of the fast-growing cyanobacterium *Synechococcus elongatus* UTEX 2973
Biotechnol. Biofuels **11**, art. 218
781. Tannert, M., May, A., Ditfe, D., **Berger, S.**, Balcke, G.U., Tissier, A., Köck, M. (2018):
Pi starvation-dependent regulation of ethanolamine metabolism by phosphoethanolamine phosphatase PECP1 in *Arabidopsis* roots
J. Exp. Bot. **69** (3), 467 - 481
782. Tapia, J., Davenport, J., Townley, B., Dorador, C., Schneider, B., Tolorza, V., **von Tümpeling, W.** (2018):
Sources, enrichment, and redistribution of As, Cd, Cu, Li, Mo, and Sb in the Northern Atacama Region, Chile: Implications for arid watersheds affected by mining
J. Geochem. Explor. **185**, 33 - 51
783. **Tarasova, L., Basso, S., Poncelet, C., Merz, R.** (2018):
Exploring controls on rainfall-runoff events: 2. Regional patterns and spatial controls of event characteristics in Germany
Water Resour. Res. **54** (10), 7688 - 7710
784. **Tarasova, L., Basso, S., Zink, M., Merz, R.** (2018):
Exploring controls on rainfall-runoff events: 1. Time series-based event separation and temporal dynamics of event runoff response in Germany
Water Resour. Res. **54** (10), 7711 - 7732
785. **Tarkka, M.T.**, Drigo, B., Deveau, A. (2018):
Mycorrhizal microbiomes
Mycorrhiza **28** (5-6), 403 - 409
786. **Taubert, F., Fischer, R., Groeneveld, J., Lehmann, S., Müller, M.S., Rödig, E., Wiegand, T., Huth, A.** (2018):
Global patterns of tropical forest fragmentation
Nature **554** (7693), 519 - 522
787. Taubert, M., Stöckel, S., Geesink, P., Girnus, S., **Jehmlich, N., von Bergen, M.**, Rösch, P., Popp, J., Küsel, K. (2018):
Tracking active groundwater microbes with D₂O labelling to understand their ecosystem function
Environ. Microbiol. **20** (1), 369 - 384
788. Tauchnitz, N., Bischoff, J., Schrödter, M., Ebert, S., **Meissner, R.** (2018):
Nitrogen efficiency of strip-till combined with slurry band injection below the maize seeds
Soil Tillage Res. **181**, 11 - 18

789. Teckentrup, L., **Grimm, V.**, Kramer-Schadt, S., Jeltsch, F. (2018): Community consequences of foraging under fear
Ecol. Model. **383**, 80 - 90
790. **Teixido, E., Kerkhof, O., Kießling, T., Scholz, S.** (2018): Retrieving mode of action information by automated effect pattern analysis using the zebrafish embryo toxicity test
Reprod. Toxicol. **80**, 18 - 19
791. **Teixidó, E., Krupp, E., Amberg, A., Czich, A., Scholz, S.** (2018): Species-specific developmental toxicity in rats and rabbits: Generation of a reference compound list for development of alternative testing approaches
Reprod. Toxicol. **76**, 93 - 102
792. Thabet, A., **Schmidt, J., Baumann, S.**, Honscha, W., **von Bergen, M.**, Daugschies, A., Bangoura, B. (2018): Resistance towards monensin is proposed to be acquired in a *Toxoplasma gondii* model by reduced invasion and egress activities, in addition to increased intracellular replication
Parasitology **145** (3), 313 - 325
793. Thacher, J.D., Gehring, U., Gruzieva, O., Standl, M., Pershagen, G., Bauer, C.-P., Berdel, D., Keller, T., Koletzko, S., Koppelman, G.H., Kull, I., Lau, S., **Lehmann, I.**, Maier, D., Schikowski, T., Wahn, U., Wijga, A.H., Heinrich, J., Bousquet, J., Anto, J.M., von Berg, A., Melén, E., Smit, H.A., Keil, T., Bergström, A. (2018): Maternal smoking during pregnancy and early childhood and development of asthma and rhinoconjunctivitis – a MeDALL project
Environ. Health Perspect. **126** (4), art. 047005
794. Thakur, M.P., Griffin, J.N., Küinne, T., **Dunker, S.**, Fanesi, A., Eisenhauer, N. (2018): Temperature effects on prey and basal resources exceed that of predators in an experimental community
Ecol. Evol. **8** (24), 12670 - 12680
795. **Thober, J., Schwarz, N., Hermans, K.** (2018): Agent-based modeling of environment-migration linkages: a review
Ecol. Soc. **23** (2), art. 41
796. **Thober, S., Kumar, R., Wanders, N., Marx, A., Pan, M., Rakovec, O., Samaniego, L.**, Sheffield, J., Wood, E.F., **Zink, M.** (2018): Multi-model ensemble projections of European river floods and high flows at 1.5, 2, and 3 degrees global warming
Environ. Res. Lett. **13** (1), art. 014003

797. Thompson, A.H., **Knight, T.M.** (2018):
Exotic plant species receive adequate pollinator service despite variable integration into
plant–pollinator networks
Oecologia **187** (1), 135 - 142
798. **Thrän, D., Billig, E.**, Brosowski, A., Klemm, M., **Seitz, S.B.** (2018):
Bioenergy carriers – From smoothly treated biomass towards solid and gaseous biofuels
Chem. Ing. Tech. **90** (1-2), 68 - 84
799. **Thrän, D.**, Pfeiffer, D. (2018):
Biomass energy use: Bioenergy – Flexible and Integrated Into the Next Age
Chem. Eng. Technol. **41** (11), 2100
800. **Thrän, D.**, Schaubach, K., Peetz, D., Junginger, M., Mai-Moulin, T., Schipfer, F.,
Olsson, O., Lamers, P. (2018):
The dynamics of the global wood pellet markets and trade - key regions, developments
and impact factors
Biofuels Bioprod. Biorefining **88** (1), 1 - 14
801. **Thulke, H.-H., Lange, M.**, Tratalos, J.A., Clegg, T.A., McGrath, G., O’Grady, L.,
O’Sullivan, P., Doherty, M.L., Graham, D.A., More, S.J. (2018):
Eradicating BVD, reviewing Irish programme data and model predictions to support
prospective decision making
Prev. Vet. Med. **150** , 151 - 161
802. **Thürmann, L., Grützmann, K., Klös, M., Bieg, M., Winter, M., Polte, T.,**
Bauer, T., Schick, M., Bewerunge-Hudler, M., **Röder, S., Bauer, M., Wissenbach, D.K.**,
, Sack, U., Weichenhan, D., Mücke, O., Plass, C., Borte, M., **von Bergen, M., Lehmann, I.**,
Eils, R., **Trump, S.** (2018):
Early-onset childhood atopic dermatitis is related to *NLRP2* repression
J. Allergy Clin. Immunol. **141** (4), 1482 - 1485.e16
803. Tinch, R., Balian, E., Carss, D., de Blas, D.E., Geamana, N.A., **Heink, U.**,
Keune, H., **Nesshöver, C.**, Niemelä, J., Sarkki, S., Thibon, M., **Timaeus, J.**,
Vadineanu, A., van den Hove, S., Watt, A., Waylen, K.A., **Wittmer, H.**, Young, J.C.
(2018):
Science-policy interfaces for biodiversity: dynamic learning environments for successful
impact
Biodivers. Conserv. **27** (7), 1679 - 1702
804. Tkadlec, E., **Václavík, T.**, Kubelová, M., Široký, P. (2018):
Negative spatial covariation in abundance of two European ticks: diverging niche
preferences or biotic interaction?
Ecol. Entomol. **43** (6), 804 - 812

805. Tokarski, D., Kučerík, J., Kalbitz, K., Demyan, M.S., **Merbach, I.**, Barkusky, D., Ruehlmann, J., Siewert, C. (2018):
Contribution of organic amendments to soil organic matter detected by thermogravimetry
J. Plant Nutr. Soil Sci. **181** (5), 664 - 674
806. Tomin, T., **Fritz, K.**, Gindlhuber, J., Waldherr, L., Pucher, B., Thallinger, G.G., Nomura, D.K., Schittmayer, M., Birner-Gruenberger, R. (2018):
Deletion of adipose triglyceride lipase links triacylglycerol accumulation to a more-aggressive phenotype in A549 lung carcinoma cells
J. Proteome Res. **17** (4), 1415 - 1425
807. Torres, A., Fernández, N., zu Ermgassen, S., Helmer, W., Revilla, E., Saavedra, D., Perino, A., **Mimet, A.**, Rey-Benayas, J.M., Selva, N., Schepers, F., Svenning, J.-C., Pereira, H.M. (2018):
Measuring rewilding progress
Philos. Trans. R. Soc. B-Biol. Sci. **373** (1761), art. 20170433
808. Torres, I., Parra, A., Moreno, J.M., **Durka, W.** (2018):
No genetic adaptation of the Mediterranean keystone shrub *Cistus ladanifer* in response to experimental fire and extreme drought
PLOS One **13** (6), e0199119
809. Tousova, Z., **Froment, J.**, Oswald, P., Slobodník, J., Hilscherova, K., Thomas, K.V., Tollesen, K.E., Reid, M., Langford, K., Blaha, L. (2018):
Identification of algal growth inhibitors in treated waste water using effect-directed analysis based on non-target screening techniques
J. Hazard. Mater. **358** , 494 - 502
810. Tousova, Z., Oswald, P., Slobodník, J., Blaha, L., **Muz, M.**, **Hu, M.**, **Brack, W.**, **Krauss, M.**, Di Paolo, C., Tarcai, Z., Seiler, T.-B., Hollert, H., Koprivica, S., Ahel, M., Schollée, J.E., Hollender, J., Suter, M.J.-F., Hidasi, A.O., Schirmer, K., Sonavane, M., Ait-Aissa, S., Creusot, N., Brion, F., **Froment, J.**, Almeida, A.C., Thomas, K., Tollesen, K.E., Tufi, S., Ouyang, X., Leonards, P., Lamoree, M., Torrens, V.O., Kolkman, A., Schriks, M., Spirhanzlova, P., Tindall, A., **Schulze, T.** (2018):
Corrigendum to “European demonstration program on the effect-based and chemical identification and monitoring of organic pollutants in European surface waters” [Sci. Total Environ. 601–602 (2017) 1849–1868]
Sci. Total Environ. **635** , 1620 - 1621
811. Trapp, S., Libonati Brock, A., **Nowak, K.**, **Kästner, M.** (2018):
Prediction of the ofrmation of biogenic nonextractable residues during degradation of environmental chemicals from biomass yields
Environ. Sci. Technol. **52** (2), 663 - 672

812. Tratalos, J.A., **Thulke, H.-H.**, Graham, D.A., Guelbenzu Gonzalo, M., More, S.J. (2018): Decision support beyond total savings—Eligibility and potential savings for individual participants from changes in the national surveillance strategy for bovine viral diarrhoea (BVD) in Ireland
Prev. Vet. Med. **155**, 38 - 44
813. **Trauth, N., Musolff, A., Knöller, K., Kaden, U.S., Keller, T., Werban, U., Fleckenstein, J.H.** (2018): River water infiltration enhances denitrification efficiency in riparian groundwater
Water Res. **130**, 185 - 199
814. **Trump, S., Klös, M., Schmidt, M., Bauer, T., Ishaque, N., Thürmann, L., Bieg, M., Herrmann, C., Röder, S., Bauer, M., Weichenhan, D., Mücke, O., Plass, C., Borte, M., von Mutius, E., Kabesch, M., Stangl, G., Lauener, R., Pekkanen, J., Dolphin, J., Riedler, J., Eils, R., Lehmann, I.** (2018): Development of early childhood asthma goes along with massive enhancer activation in blood cells
Allergy **73** (S105), 314 - 314
815. Türke, M., **Schmidt, A., Schädler, M.**, Hotes, S., Weisser, W.W. (2018): Are invasive apple snails important neglected decomposers of rice straw in paddy fields?
Biol. Agric. Hortic. **38** (4), 245 - 257
816. Turkelboom, F., Leone, M., Jacobs, S., Kelemen, E., García-Llorente, M., Baró, F., Termansen, M., Barton, D.N., Berry, P., Stange, E., Thoonen, M., Kalóczkai, A., Vadineanu, A., Castro, A.J., Czúcz, B., Röckmann, C., Wurbs, D., Odee, D., Preda, E., Gómez-Baggethun, E., Rusch, G.M., Martínez Pastur, G., Palomo, I., Dick, J., Casaer, J., van Dijk, J., **Priess, J.A.**, Langemeyer, J., Mustajoki, J., Koppenroinen, L., Baptist, M.J., Peri, P.L., Mukhopadhyay, R., Aszalós, R., Roy, S.B., Luque, S., Rusch, V. (2018): When we cannot have it all: Ecosystem services trade-offs in the context of spatial planning
Ecosystem Services **29** (Part C), 566 - 578
817. **Türkowsky, D., Esken, J., Goris, T., Schubert, T., Diekert, G., Jehmlich, N., von Bergen, M.** (2018): A retentive memory of tetrachloroethene respiration in *Sulfurospirillum halorespirans* - involved proteins and a possible link to acetylation of a two-component regulatory system
J. Proteomics **181**, 36 - 46
818. **Türkowsky, D., Jehmlich, N., Diekert, G., Adrian, L., von Bergen, M., Goris, T.** (2018): An integrative overview of genomic, transcriptomic and proteomic analyses in organohalide respiration research
FEMS Microbiol. Ecol. **94** (3), fiy013

819. Turlure, C., **Pe'er, G.**, Baguette, M., Schtickzelle, N. (2018):
A simplified mark-release-recapture protocol to improve the cost effectiveness of
repeated population size quantification
Methods Ecol. Evol. **9** (3), 645 - 656
820. **Turrini, T.**, Dörler, D., **Richter, A.**, Heigl, F., **Bonn, A.** (2018):
The threefold potential of environmental citizen science - generating knowledge, creating
learning opportunities and enabling civic participation
Biol. Conserv. **225** , 176 - 186
821. **Tzoufka, K.**, **Magri, F.**, **Rödiger, T.**, Inbar, N., Shalev, E., Möller, P., Raggad,
M., Rosenthal, E., **Siebert, C.** (2018):
The effect of hydraulic anisotropies on intensely exploited groundwater resources: the
numerical evaluation of a hydrothermal transboundary aquifer system in the Middle East
Hydrogeol. J. **26** (8), 2875 - 2890
822. **Ueberham, M.**, **Schlink, U.** (2018):
Wearable sensors for multifactorial personal exposure measurements – A ranking study
Environ. Int. **121** , 130 - 138
823. **Ueberham, M.**, Schmidt, F., **Schlink, U.** (2018):
Advanced smartphone-based sensing with open-source task automation
Sensors **18** (8), art. 2456
824. Ulloa, A.M., **Jax, K.**, Karlsson-Vinkhuzen, S.I. (2018):
Enhancing implementation of the Convention on Biological Diversity: A novel
peer-review mechanism aims to promote accountability and mutual learning
Biol. Conserv. **217** , 371 - 376
825. Ullrich, M.K., Gelman, F., Zakon, Y., Halicz, L., **Knöller, K.**, Planer-Friedrich, B.
(2018):
Sulfur isotope analysis by IC-MC-ICP-MS provides insight into fractionation of
thioarsenates during abiotic oxidation
Chem. Geol. **477** , 92 - 99
826. **Ulrich, N.**, Bury, D., Koch, H.M., Rüther, M., Weber, T., Käfferlein, H.-U., Weiss, T.,
Brüning, T., Kolossa-Gehring, M. (2018):
Metabolites of the alkyl pyrrolidone solvents NMP and NEP in 24-h urine samples of the
German Environmental Specimen Bank from 1991 to 2014
Int. Arch. Occup. Environ. Health **91** (8), 1073 - 1082

827. Valbuena-Ureña, E., Oromi, N., Soler-Membrives, A., Carranza, S., Amat, F., Camarasa, S., Denoël, M., Guillaume, O., Sanuy, D., **Loyau, A.**, **Schmeller, D.S.**, Steinfartz, S. (2018):
Jailed in the mountains: Genetic diversity and structure of an endemic newt species across the Pyrenees
PLOS One **13** (8), e0200214
828. Vallet, A., Locatelli, B., Levrel, H., Wunder, S., **Seppelt, R.**, Scholes, R.J., Oswald, J. (2018):
Relationships between ecosystem services: Comparing methods for assessing tradeoffs and synergies
Ecol. Econ. **150**, 96 - 106
829. van der Plas, F., Ratcliffe, S., Ruiz-Benito, P., Scherer-Lorenzen, M., Verheyen, K., Wirth, C., Zavala, M.A., Ampoorter, E., Baeten, L., Barbaro, L., Bastias, C.C., Bauhus, J., Benavides, R., Benneter, A., Bonal, D., Bouriaud, O., Bruelheide, H., Bussotti, F., Carnol, M., Castagnéyrol, B., Charbonnier, Y., Cornelissen, J.H.C., Dahlgren, J., Checko, E., Coppi, A., Dawud, S.M., Deconchat, M., De Smedt, P., De Wandeler, H., Domisch, T., Finér, L., Fotelli, M., Gessler, A., Granier, A., Grossiord, C., Guyot, V., Haase, J., Hättenschwiler, S., Jactel, H., Jaroszewicz, B., Joly, F.-X., Jucker, T., **Kambach, S.**, Kaendler, G., Kattge, J., Koricheva, J., Kunstler, G., Lehtonen, A., Liebergesell, M., Manning, P., Milligan, H., Müller, S., Muys, B., Nguyen, D., Nock, C., Ohse, B., Paquette, A., Peñuelas, J., Pollastrini, M., Radoglou, K., Raulund-Rasmussen, K., Roger, F., Seidl, R., Selvi, F., Stenlid, J., Valladares, F., van Keer, J., Vesterdal, L., Fischer, M., Gamfeldt, L., Allan, E. (2018):
Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality
Ecol. Lett. **21** (1), 31 - 42
830. **van der Sande, M.T.**, Arets, E.J.M.M., Peña-Claros, M., Hoosbeek, M.R., Cáceres-Siani, Y., van der Hout, P., Poorter, L. (2018):
Soil fertility and species traits, but not diversity, drive productivity and biomass stocks in a Guyanese tropical rainforest
Funct. Ecol. **32** (2), 461 - 474
831. van Dijk, J., Dick, J., Harrison, P., **Jax, K.**, Saarikoski, H., Furman, E. (2018):
Editorial: Operationalisation of natural capital and ecosystem services – Special issue
Ecosystem Services **29** (Part C), 411 - 414
832. van Gelder, S., Röhrig, N., **Schattenberg, F.**, **Cichocki, N.**, **Schumann, J.**, Schmalz, G., Haak, R., Ziebolz, D., **Müller, S.** (2018):
A cytometric approach to follow variation and dynamics of the salivary microbiota
Methods **134–135**, 67 - 79

833. van Kleunen, M., Essl, F., Pergl, J., Brundu, G., Carboni, M., Dullinger, S., Early, R., González-Moreno, P., Groom, Q.J., Hulme, P.E., Kueffer, C., **Kühn, I.**, Máguas, C., Maurel, N., Novoa, A., Parepa, M., Pyšek, P., Seebens, H., Tanner, R., Touza, J., Verbrugge, L., Weber, E., Dawson, W., Kreft, H., Weigelt, P., Winter, M., Klonner, G., Talluto, M.V., Dehnen-Schmutz, K. (2018):
The changing role of ornamental horticulture in alien plant invasions
Biol. Rev. **93** (3), 1421 - 1437
834. van Laak, M., Klingenberg, U., Peiter, E., **Reitz, T.**, Zimmer, D., Buczko, U. (2018):
The equivalence of the Calcium-Acetate-Lactate and Double-Lactate extraction methods to assess soil phosphorus fertility
J. Plant Nutr. Soil Sci. **181** (5), 795 - 801
835. van Langevelde, F., Braamburg-Annegarn, M., Huigens, M.E., Groendijk, R., Poitevin, O., van Deijk, J.R., Ellis, W.N., van Grunsven, R.H.A., de Vos, R., Vos, R.A., **Franzén, M.**, WallisDeVries, M.F. (2018):
Declines in moth populations stress the need for conserving dark nights
Glob. Change Biol. **24** (3), 925 - 932
836. Van Oudenhoven, A.P.E., Martín-López, B., **Schröter, M.**, de Groot, R. (2018):
Advancing science on the multiple connections between biodiversity, ecosystems and people. Editorial
International Journal of Biodiversity Science, Ecosystem Services & Management **14** (1), 127 - 131
837. Van Oudenhoven, A.P.E., **Schröter, M.**, Drakou, E.G., Geijzendorffer, I.R., Jacobs, S., van Bodegom, P.M., Chazee, L., Czúcz, B., Grunewald, K., Lillebø, A.I., Mononen, L., Nogueira, A.J.A., Pacheco-Romero, M., Perennou, C., Remme, R.P., Rova, S., Syrbe, R.-U., Tratalos, J.A., Vallejos, M., Albert, C. (2018):
Key criteria for developing ecosystem service indicators to inform decision making
Ecol. Indic. **95** (Part 1), 417 - 426
838. van Velzen, E., Thierser, T., Berendonk, T., **Weitere, M.**, Gaedke, U. (2018):
Inducible defense destabilizes predator-prey dynamics: the importance of multiple predators
Oikos **127** (11), 1551 - 1562
839. Varela, C., Schmidt, S.A., Borneman, A.R., Pang, C.N.I., **Krömer, J.O.**, Khan, A., Song, X., Hodson, M.P., Solomon, M., Mayr, C.M., Hines, W., Pretorius, I.S., Baker, M.S., Roessner, U., Mercurio, M., Henschke, P.A., Wilkins, M.R., Chambers, P.J. (2018):
Systems-based approaches enable identification of gene targets which improve the flavour profile of low-ethanol wine yeast strains
Metab. Eng. **49** , 178 - 191

840. Varela, J.L., **Rojo-Nieto, E.**, Sorell, J.M., Medina, A. (2018):
Using stable isotope analysis to assess trophic relationships between Atlantic
bluefin tuna (*Thunnus thynnus*) and striped dolphin (*Stenella coeruleoalba*) in the Strait
of Gibraltar
Mar. Environ. Res. **139**, 57 - 63
841. **Vásquez-Piñeros, M.A.**, Martínez-Lavanchy, P.M., Jehmlich, N., Pieper,
D.H., Rincón, C.A., Harms, H., Junca, H., Heipieper, H.J. (2018):
Delftia sp. LCW, a strain isolated from a constructed wetland shows novel properties for
dimethylphenol isomers degradation
BMC Microbiol. **18**, art. 108
842. Vassilev, I., Gießelmann, G., Schwechheimer, S.K., Wittmann, C., Virdis, B., **Krömer,
J.O.** (2018):
Anodic electro-fermentation: Anaerobic production of L-Lysine by
recombinant *Corynebacterium glutamicum*
Biotechnol. Bioeng. **115** (6), 1499 - 1508
843. Vassilev, I., Hernandez, P.A., Batlle-Vilanova, P., Freguia, S., **Krömer, J.O.**, Keller, J.,
Ledezma, P., Virdis, B. (2018):
Microbial electrosynthesis of isobutyric, butyric, caproic acids, and corresponding
alcohols from carbon dioxide
ACS Sustain. Chem. Eng. **6** (7), 8485 - 8493
844. Vaz, A.S., **Crouzat, E.**, Santarém, F., Grescho, V., Carvalho-Santos, C. (2018):
From pork to fork: The social experience of bundles of interacting ecosystem services
through gastronomy
Ecosystem Services **32**, 170 - 172
845. Velimirovic, M., Auffan, M., Carniato, L., Micić Batka, V., Schmid, D., **Wagner, S.**,
Borschneck, D., Proux, O., von der Kammer, F., Hofmann, T. (2018):
Effect of field site hydrogeochemical conditions on the corrosion of milled zerovalent
iron particles and their dechlorination efficiency
Sci. Total Environ. **618**, 1619 - 1627
846. Verbeek, L., Vanhamel, M., van den Berg, E., Hanashiro, F.T.T., **Gianuca, A.T.**,
Striebel, M., Lemmens, P., Declerck, S.A.J., Hillebrand, H., De Meester, L. (2018):
Compositional and functional consequences of environmental change in Belgian farmland
ponds
Freshw. Biol. **63** (6), 581 - 596

847. Verhagen, W., van der Zanden, E.H., **Strauch, M.**, van Teeffelen, A.J.A., Verburg, P.H. (2018): Optimizing the allocation of agri-environment measures to navigate the trade-offs between ecosystem services, biodiversity and agricultural production
Environ. Sci. Policy **84** , 186 - 196
848. **Vetterlein, D., Schlüter, S., Vogel, H.-J.** (2018): Roots out of sight, not out of mind
Nature **554** (7693), 423
849. **Vetterlein, D., Tarkka, M.** (2018): Seeds with low phosphorus content: not so bad after all?
J. Exp. Bot. **69** (21), 4993 - 4996
850. Vigiak, O., **Lutz, S.**, Mentzafou, A., Chiogna, G., Ye, T., Majone, B., Beck, H., de Roo, A., Malagó, A., Bouraoui, F., **Kumar, R., Samaniego, L., Merz, R.**, Gamvroudis, C., Skoulikidis, N., Nikolaidis, N.P., Bellin, A., Acuña, V., Mori, N., Ludwig, R., Pistocchi, A. (2018): Uncertainty of modelled flow regime for flow-ecological assessment in Southern Europe
Sci. Total Environ. **615** , 1028 - 1047
851. Vilajeliu-Pons, A., **Koch, C.**, Balaguer, M.D., Colprim, J., **Harnisch, F.**, Puig, S. (2018): Microbial electricity driven anoxic ammonium removal
Water Res. **130** , 168 - 175
852. **Vogel, H.-J., Bartke, S.**, Daedlow, K., Helming, K., Kögel-Knabner, I., Lang, B., **Rabot, E.**, Russell, D., **Stöbel, B., Weller, U.**, Wiesmeier, M., **Wollschläger, U.** (2018): A systemic approach for modeling soil functions
Soil **4** (1), 83 - 92
853. **Vogel, M., Nijenhuis, I.**, Lloyd, J., Boothman, C., **Pöritz, M., Mackenzie, K.** (2018): Combined chemical and microbiological degradation of tetrachloroethene during the application of Carbo-Iron at a contaminated field site
Sci. Total Environ. **628-629** , 1027 - 1036
854. Volpi, G., **Magri, F.**, Colucci, F., **Fischer, T.**, De Caro, M., Crosta, G.B. (2018): Modeling highly buoyant flows in the Castel Giorgio: Torre Alfina deep geothermal reservoir
Geofluids **2018** , art. 3818629

855. Vongvixay, A., Grimaldi, C., **Dupas, R.**, Fovet, O., Birgand, F., Gilliet, N., Gascuel-Odoux, C. (2018):
Contrasting suspended sediment export in two small agricultural catchments:
Cross-influence of hydrological behaviour and landscape degradation or stream bank management
Land Degrad. Dev. **29** (5), 1385 - 1396
856. **Vosshage, A.T.L., Neu, T.R.**, Gabel, F. (2018):
Plastic alters biofilm quality as food resource of the freshwater gastropod *Radix balthica*
Environ. Sci. Technol. **52** (19), 11387 - 11393
857. **Vu, Q.**, Ramal, A.F., Villegas, J.M., Jamoralin, A., Bernal, C.C., Pasang, J.M., Almazan, M.L.P., Ramp, D., **Settele, J.**, Horgan, F.G. (2018):
Enhancing the parasitism of insect herbivores through diversification of habitat in Philippine rice fields
Paddy Water Environ. **16** (2), 379 - 390
858. **Wagner, S.**, Hüffer, T., **Klöckner, P.**, Wehrhahn, M., Hofmann, T., **Reemtsma, T.** (2018):
Tire wear particles in the aquatic environment - A review on generation, analysis, occurrence, fate and effects
Water Res. **139** , 83 - 100
859. Wampach, L., **Heintz-Buschart, A.**, Fritz, J.V., Ramiro-Garcia, J., Habier, J., Herold, M., Narayanasamy, S., Kaysen, A., Hogan, A.H., Bindl, L., Bottu, J., Halder, S., Sjöqvist, C., May, P., Andersson, A.F., de Beaufort, C., Wilmes, P. (2018):
Birth mode is associated with earliest strain-conferred gut microbiome functions and immunostimulatory potential
Nat. Commun. **9** , art. 5091
860. Wang, C., Wania, F., **Goss, K.-U.** (2018):
Is secondary organic aerosol yield governed by kinetic factors rather than equilibrium partitioning?
Environ. Sci.-Proc. Imp. **20** (1), 245 - 252
861. **Wang, J., Banzhaf, E.** (2018):
Towards a better understanding of Green Infrastructure: A critical review
Ecol. Indic. **85** , 758 - 772
862. Wang, M., White, N., **Grimm, V.**, Hofman, H., Doley, D., Thorp, G., Cribb, B., Wherritt, E., Han, L., Wilkie, J., Hanan, J. (2018):
Pattern-oriented modelling as a novel way to verify and validate functional-structural plant models: a demonstration with the annual growth module of avocado
Ann. Bot. **121** (5), 941 - 959

863. Wang, X., **Wiegand, T.**, Anderson-Teixeira, K.-J., Bourg, N.A., Hao, Z., Howe, R., Jin, G., Orwig, D.A., Spasojevic, M.J., Wang, S., Wolf, A., Myers, J.A. (2018): Ecological drivers of spatial community dissimilarity, species replacement and species nestedness across temperate forests
Glob. Ecol. Biogeogr. **27** (5), 581 - 592
864. **Wang, Y.**, Zhu, W., Peng, Z., Zeng, Y., Wang, Y., Wang, Z., **Rinke, K.** (2018): Predicting lake eutrophication responses to multiple scenarios of lake restoration: A three-dimensional modeling approach
Water **10** (8), art. 994
865. **Weickardt, I., Zehnsdorf, A., Durka, W.** (2018): Development and characterization of simple sequence repeat markers for the invasive tetraploid waterweed *Elodea nuttallii* (Hydrocharitaceae)
Appl. Plant Sci. **6** (4), art. e1146
866. **Weiner, B., Breulmann, M.**, Wedwitschka, H., **Fühner, C., Kopinke, F.-D.** (2018): Wet oxidation of process waters from the hydrothermal carbonization of sewage sludge
Chem. Ing. Tech. **90** (6), 872 - 880
867. **Weiβbecker, C., Wubet, T., Lentendu, G.**, Kühn, P., Scholten, T., Bruelheide, H., **Buscot, F.** (2018): Experimental evidence of functional group-dependent effects of tree diversity on soil fungi in subtropical forests
Front. Microbiol. **9** , art. 2312
868. **Weitere, M., Erken, M.**, Majdi, N., Arndt, H., **Norf, H.**, Reinshagen, M., Traunspurger, W., Walterscheid, A., **Wey, J.K.** (2018): The food web perspective on aquatic biofilms
Ecol. Monogr. **88** (4), 543 - 559
869. **Weller, U., Leuther, F., Schlüter, S., Vogel, H.-J.** (2018): Quantitative analysis of water infiltration in soil cores using X-ray
Vadose Zone J. **17** (1), art. 160136
870. Wellmann, T., **Haase, D., Knapp, S., Salbach, C.**, Selsam, P., **Lausch, A.** (2018): Urban land use intensity assessment: The potential of spatio-temporal spectral traits with remote sensing
Ecol. Indic. **85** , 190 - 203
871. **Wells, N.S., Kappelmeyer, U., Knöller, K.** (2018): Anoxic nitrogen cycling in a hydrocarbon and ammonium contaminated aquifer
Water Res. **142** , 373 - 382

872. **Wentzky, V.C., Tittel, J., Jäger, C.G., Rinke, K.** (2018):
Mechanisms preventing a decrease in phytoplankton biomass after phosphorus reductions
in a German drinking water reservoir—results from more than 50 years of observation
Freshw. Biol. **63** (9), 1063 - 1076
873. Werner, F., **Haase, A.**, Renner, N., **Rink, D.**, Rottwinkel, M., **Schmidt, A.** (2018):
The local governance of arrival in Leipzig: Housing of asylum-seeking persons as a
contested field
Urban Plann. **3** (4), 116 - 128
874. Wetzel, F.T., Bingham, H.C., Groom, Q., Haase, P., Kõlalg, U., Kuhlmann,
M., Martin, C.S., Penev, L., Robertson, T., Saarenmaa, H., **Schmeller, D.S.**, Stoll, S.,
Tonkin, J.D., Häuser, C.L. (2018):
Unlocking biodiversity data: Prioritization and filling the gaps in biodiversity observation
data in Europe
Biol. Conserv. **221** , 78 - 85
875. Wetzel, F.T., **Schmeller, D.S.**, Bingham, H.C., Groom, Q., Haase, P., Kõlalg, U.,
Kuhlmann, M., Martin, C.S., Penev, L., Robertson, T., Saarenmaa, H., Stoll, S., Tonkin,
J.D., Häuser, C.L. (2018):
Real gaps in European bird monitoring: A reply to Voříšek et al.
Biol. Conserv. **225** , 247 - 248
876. **Wiederkehr, C., Beckmann, M., Hermans, K.** (2018):
Environmental change, adaptation strategies and the relevance of migration in
Sub-Saharan drylands
Environ. Res. Lett. **13** (11), art. 113003
877. **Wiemers, M.**, Balletto, E., Dincă, V., Faltynek Fric, Z., Lamas, G., Lukhtanov, V.,
Munguira, M.L., van Swaay, C.A.M., Vila, R., Vliegenthart, A., Wahlberg, N., Verovnik,
R. (2018):
An updated checklist of the European Butterflies (Lepidoptera, Papilionoidea)
ZooKeys **811** , 9 - 45
878. Wiesmeier, M., Urbanski, L., Hobley, E., Lang, B., von Lützow, M.,
Marin-Spiotta, E., van Wesemael, B., **Rabot, E., Ließ, M.**, Garcia-Franco,
N., **Wollschaeger, U.**, **Vogel, H.-J.**, Kögel-Knabner, I. (2018):
Soil organic carbon storage as a key function of soils - A review of drivers and indicators
at various scales
Geoderma **333** , 149 - 162

879. Winkens, K., Giovanoulis, G., Koponen, J., Vestergren, R., **Berger, U.**, Karvonen, A.M., Pekkanen, J., Kiviranta, H., Cousins, I.T. (2018):
Perfluoroalkyl acids and their precursors in floor dust of children's bedrooms – Implications for indoor exposure
Environ. Int. **119** , 493 - 502
880. Wintermantel, D., Locke, B., Andersson, G.K.S., Semberg, E., Forsgren, E., **Osterman, J.**, Rahbek Pedersen, T., Bommarco, R., Smith, H.G., Rundlöf, M., de Miranda, J.R. (2018):
Field-level clothianidin exposure affects bumblebees but generally not their pathogens
Nat. Commun. **9** , art. 5446
881. **Wintsche, B., Jehmlich, N., Popp, D., Harms, H., Kleinsteuber, S.** (2018):
Metabolic adaptation of methanogens in anaerobic digesters upon trace element limitation
Front. Microbiol. **9** , art. 405
882. **Witing, F., Prays, N., O'Keeffe, S., Gründling, R., Gebel, M., Kurzer, H.-J., Daniel-Gromke, J., Franko, U.** (2018):
Biogas production and changes in soil carbon input - A regional analysis
Geoderma **320** , 105 - 114
883. **Wolff, M.** (2018):
Understanding the role of centralization processes for cities – Evidence from a spatial perspective of urban Europe 1990–2010
Cities **75** , 20 - 29
884. **Wolff, M., Haase, D., Haase, A.** (2018):
Compact or spread? A quantitative spatial model of urban areas in Europe since 1990
PLOS One **13** (2), e0192326
885. **Wolff, M.**, Wiechmann, T. (2018):
Urban growth and decline: Europe's shrinking cities in a comparative perspective 1990-2010
Eur. Urban Reg. Stud. **25** (2), 122 - 139
886. Wolschke, H., Sühring, R., **Massei, R.**, Tang, J., Ebinghaus, R. (2018):
Regional variations of organophosphorus flame retardants - Fingerprint of large river basin estuaries/deltas in Europe compared with China
Environ. Pollut. **236** , 391 - 395
887. **Woods, A., Kuntze, K., Gelman, F., Halicz, L., Nijenhuis, I.** (2018):
Variable dual carbon-bromine stable isotope fractionation during enzyme-catalyzed reductive dehalogenation of brominated ethenes
Chemosphere **190** , 211 - 217

888. **Wu, B.-W.**, Gao, C., Chen, L., **Buscot, F.**, **Goldmann, K.**, **Purahong, W.**, Ji, N.-N., Wang, Y.-L., Lü, P.-P., Li, X.-C., Guo, L.-D. (2018):
Host phylogeny is a major determinant of Fagaceae-associated ectomycorrhizal fungal community assembly at a regional scale
Front. Microbiol. **9**, art. 2409
889. **Wu, L.**, Chládková, B., Lechtenfeld, O.J., Lian, S., Schindelka, J., Herrmann, H., **Richnow, H.H.** (2018):
Characterizing chemical transformation of organophosphorus compounds by ^{13}C and ^2H stable isotope analysis
Sci. Total Environ. **615**, 20 - 28
890. **Wu, L.**, Verma, D., Bondgaard, M., Melvej, A., **Vogt, C.**, Subudhi, S., **Richnow, H.H.** (2018):
Carbon and hydrogen isotope analysis of parathion for characterizing its natural attenuation by hydrolysis at a contaminated site
Water Res. **143**, 146 - 154
891. Wuchty, S., Müller, S.A., Caufield, J.H., Häuser, R., Aloy, P., **Kalkhof, S.**, Uetz, P. (2018):
Proteome data improves protein function prediction in the interactome of *Helicobacter pylori*
Mol. Cell. Proteomics **17** (5), 961 - 973
892. Wunderlich, A., **Heipieper, H.J.**, Elsner, M., Einsiedl, F. (2018):
Solvent stress-induced changes in membrane fatty acid composition of denitrifying bacteria reduce the extent of nitrogen stable isotope fractionation during denitrification
Geochim. Cosmochim. Acta **239**, 275 - 283
893. Wünsch, U.J., Geuer, J.K., **Lechtenfeld, O.J.**, Koch, B.P., Murphy, K.R., Stedmon, C.A. (2018):
Quantifying the impact of solid-phase extraction on chromophoric dissolved organic matter composition
Mar. Chem. **207**, 33 - 41
894. Wyborn, C., Louder, E., Harrison, J., Montambault, J., Montana, J., Ryan, M., Bednarek, A., **Nesshöver, C.**, Pullin, A., Reed, M., Dellecker, E., Kramer, J., Boyd, J., Dellecker, A., Hutton, J. (2018):
Understanding the impacts of research synthesis
Environ. Sci. Policy **86**, 72 - 84
895. Xie, Y., Crosbie, R., **Yang, J.**, Wu, J., Wang, W. (2018):
Usefulness of soil moisture and actual evapotranspiration data for constraining potential groundwater recharge in semiarid regions
Water Resour. Res. **54** (7), 4929 - 4945

896. Xing, P., **Yoshioka, K.**, Adachi, J., El-Fayoumi, A., Damjanac, B., Bunger, A.P. (2018): Lattice simulation of laboratory hydraulic fracture containment in layered reservoirs
Comput. Geotech. **100**, 62 - 75
897. Xu, C., **Haase, D.**, Pauleit, S. (2018): The impact of different urban dynamics on green space availability: A multiple scenario modeling approach for the region of Munich, Germany
Ecol. Indic. **93**, 1 - 12
898. Xu, C., **Haase, D.**, Pribadi, D.O., Pauleit, S. (2018): Spatial variation of green space equity and its relation with urban dynamics: A case study in the region of Munich
Ecol. Indic. **93**, 512 - 523
899. Xu, J., He, H., Wang, Y.-Y., Yan, R., Zhou, L.-J., Liu, Y., Jiang, F.-L., **Maskow, T.**, Liu, Y. (2018): New aspects of the environmental risks of quantum dots: prophage activation
Environ. Sci.-Nano **5** (7), 1556 - 1566
900. Xu, J., Jiang, F.-L., Liu, Y., **Kiesel, B.**, **Maskow, T.** (2018): An enhanced bioindicator for calorimetric monitoring of prophage-activating chemicals in the trace concentration range
Eng. Life Sci. **18** (7), 475 - 483
901. Xu, J., **Kiesel, B.**, **Kallies, R.**, Jiang, F.-L., Liu, Y., **Maskow, T.** (2018): A fast and reliable method for monitoring of prophage-activating chemicals
Microb. Biotechnol. **11** (6), 1112 - 1120
902. Yalew, S.G., Pilz, T., **Schweitzer, C.**, Liersch, S., van der Kwast, J., van Griensven, A., Mul, M.L., Dickens, C., van der Zaag, P. (2018): Coupling land-use change and hydrologic models for quantification of catchment ecosystem services
Environ. Modell. Softw. **109**, 315 - 328
903. Yan, B., **Spangenberg, J.H.** (2018): Needs, wants and values in China: reducing physical wants for sustainable consumption
Sustain. Dev. **26** (6), 772 - 780
904. **Yang, J.**, **Heidbüchel, I.**, **Musolff, A.**, Reinstorf, F., **Fleckenstein, J.H.** (2018): Exploring the dynamics of transit times and subsurface mixing in a small agricultural catchment
Water Resour. Res. **54** (3), 2317 - 2335

905. **Yang, J.**, Zhang, H., Yu, X., Graf, T., Michael, H.A. (2018):
Impact of hydrogeological factors on groundwater salinization due to ocean-surge
inundation
Adv. Water Resour. **111**, 423 - 434
906. **Yang, X.**, Jomaa, S., Zink, M., Fleckenstein, J.H., Borchardt, D., Rode, M. (2018):
A new fully distributed model of nitrate transport and removal at catchment scale
Water Resour. Res. **54** (8), 5856 - 5877
907. Ye, F., Ma, M.-H., Op den Camp, H.J.M., Chatzinotas, A., Lv, M.-Q., Wu, S.-J. (2018):
Different recovery processes of soil ammonia oxidizers from flooding disturbance
Microb. Ecol. **76** (4), 1041 - 1052
908. Yu, S., **Lai, B.**, Plan, M.R., Hodson, M.P., Lestari, E.A., Song, H., **Krömer, J.O.** (2018):
Improved performance of *Pseudomonas putida* in a bioelectrochemical system through
overexpression of periplasmic glucose dehydrogenase
Biotechnol. Bioeng. **115** (1), 145 - 155

909. Zamora, J.C., Svensson, M., Kirschner, R., Olariaga, I., Ryman, S., Parra, A., Geml, J., Rosling, A., Adamčík, S., Ahti, T., Aime, M.C., Ainsworth, A.M., Albert, L., Albertó, E., Altés García, A., Ageev, D., Agerer, R., Aguirre-Hudson, B., Ammirati, J., Andersson, H., Angelini, C., Antonín, V., Aoki, T., Aptroot, A., Argaud, D., Arguello Sosa, B.I., Aronsen, A., Arup, U., Asgari, B., Assyov, B., Atienza, V., Bandini, D., Baptista-Ferreira, J.L., Baral, H.-O., Baroni, T., Barreto, R.W., Beker, H., Bell, A., Bellanger, J.-M., Bellù, F., Bemann, M., Bendiksby, M., Bendiksen, E., Bendiksen, K., Benedek, L., Bérešová-Guttová, A., Berger, F., Berndt, R., Bernicchia, A., Biketova, A.Y., Bizio, E., Bjork, C., Boekhout, T., Boertmann, D., Böhning, T., Boittin, F., Boluda, C.G., Boomsluiter, M.W., Borovička, J., Brandrud, T.E., Braun, U., Brodo, I., Bulyonkova, T., Burdsall Jr., H.H., Buyck, B., Burgaz, A.R., Calatayud, V., Callac, P., Campo, E., Candusso, M., Capoen, B., Carbó, J., Carbone, M., Castañeda-Ruiz, R.F., Castellano, M.A., Chen, J., Clerc, P., Consiglio, G., Corriol, G., Courtecuisse, R., Crespo, A., Cripps, C., Crous, P.W., da Silva, G.A., da Silva, M., Dam, M., Dam, N., Dämmrich, F., Das, K., Davies, L., De Crop, E., De Kesel, A., de Lange, R., De Madrignac Bonzi, B., dela Cruz, T.E., Delgat, L., Demoulin, V., Desjardin, D.E., Diederich, P., Dima, B., Dios, M.M., Divakar, P.K., Douanla-Meli, C., Douglas, B., Drechsler-Santos, E.R., Dyer, P.S., Eberhardt, U., Ertz, D., Esteve-Raventós, F., Etayo Salazar, J.A., Evenson, V., Eyssartier, G., Farkas, E., Favre, A., Fedosova, A.G., Filippa, M., Finy, P., Flakus, A., Fos, S., Fournier, J., Fraiture, A., Franchi, P., Franco Molano, A.E., Friebes, G., Frisch, A., Fryday, A., Furci, G., Galán Márquez, R., Garbelotto, M., García-Martín, J.M., García Otálora, M.A., García Sánchez, D., Gardienet, A., Garnica, S., Benavent, I.G., Gates, G., Gerlach, A.D.C.L., Ghobad-Nejjad, M., Gibertoni, T.B., Grebenc, T., Greilhuber, I., Grishkan, B., Grishkan, J.Z., Grube, M., Gruhn, G., Gueidan, C., Gulden, G., Gusmão, L.F.P., Hafellner, J., Hairaud, M., Halama, M., Hallenberg, N., Halling, R.E., Hansen, K., Harder, C.B., Heilmann-Clausen, J., Helleman, S., Henriot, A., Hernandez-Restrepo, M., Herve, R., Hobart, C., Hoffmeister, M., Høiland, K., Holec, J., Holien, H., Hughes, K., Hubka, V., Huhtinen, S., Ivančević, B., Jagers, M., Jaklitsch, W., Jansen, A.E., Jayawardena, R.S., Jeppesen, T.S., Jeppson, M., Johnston, P., Jørgensen, P.M., Kärnefelt, I., Kalinina, L.B., Kantvilas, G., Karadelev, M., Kasuya, T., Kautmanová, I., Kerrigan, R.W., Kirchmair, M., Kiyashko, A., Knapp, D.G., Knudsen, H., Knudsen, K., Knutsson, T., Kolařík, M., Köljalg, U., Košuthová, A., Koszka, A., Kotiranta, H., Kotkova, V., Koukol, O., Kout, J., Kovács, G.M., Kříž, M., Kruys, Å., Kučera, V., Kudzma, L., Kuhar, F., Kukwa, M., Kumar, T.K.A., Kunca, V., Kušan, I., Kuyper, T.W., Lado, C., Læssøe, T., Lainé, P., Langer, E., Larsson, E., Larsson, K.-H., Laursen, G., Lechat, C., Lee, S., Lendemer, J.C., Levin, L., Lindemann, U., Lindström, H., Liu, X., Llarena Hernandez, R.C., Llop, E., Locsmárdi, C., Lodge, D.J., Loizides, M., Lőökös, L., Luangsa-ard, J., Lüderitz, M., Lumbsch, T., Lutz, M., Mahoney, D., Malysheva, E., Malysheva, V., Manimohan, P., Marin-Felix, Y., Marques, G., Martínez-Gil, R., Marson, G., Mata, G., Matheny, P.B., Mathiassen, G.H., Matočec, N., Mayrhofer, H., Mehrabi, M., Melo, I., Mešić, A., Methven, A.S., Miettinen, O., Millanes Romero, A.M., Miller, A.N., Mitchell, J.K., Moberg, R., Moreau, P.-A., Moreno, G., Morozova, O., Morte, A., Muggia, L., Muñoz González, G., Mylllys, L., Nagy, I., Nagy, L.G., Neves, M.A., Niemelä, T., Nimis, P.L., Niveiro, N., Noordeloos, M.E., Nordin, A., Noumeur, S.R., Novozhilov, Y., Nuytinck, J., Ohenoja, E., Oliveira Fiúza, P., Orange, A., Ordynets, A., Ortiz-Santana, B., Purahong, W., Pacheco, L., Pál-Fám, F., (2018): DNA sequence data as types of fungal taxa
IMA Fungus **9** (1), 167 - 175
910. **Zarejousheghani, M., Cämmerer, M., Mayer, T., Walter, A., Borsdorf, H.** (2018): Sprayed liquid-gas extraction in combination with ion mobility spectrometry: a novel approach for the fast determination of semi-volatile compounds in air and from contaminated surfaces
International Journal for Ion Mobility Spectrometry **21** (1-2), 33 - 41

911. **Zarejousheghani, M., Schrader, S., Möder, M., Mayer, T., Borsdorf, H.** (2018): Negative electrospray ionization ion mobility spectrometry combined with paper-based molecular imprinted polymer disks: A novel approach for rapid target screening of trace organic compounds in water samples
Talanta **190**, 47 - 54
912. **Zarejousheghani, M., Schrader, S., Möder, M., Schmidt, M., Borsdorf, H.** (2018): A new strategy for accelerated extraction of target compounds using molecularly imprinted polymer particles embedded in a paper-based disk
J. Mol. Recognit. **31** (3), e2629
913. **Zarejousheghani, M., Walte, A., Borsdorf, H.** (2018): Sprayed liquid–gas extraction of semi-volatile organophosphate malathion from air and contaminated surfaces
Anal. Methods **10** (21), 2503 - 2511
914. Zecchin, S., Mueller, R.C., Seifert, C., Stingl, U., Anantharaman, K., **von Bergen, M.**, Cavalca, L., Pester, M. (2018): Rice paddy *Nitrospirae* carry and express genes related to sulfate respiration: Proposal of the new genus “*Candidatus Sulfobium*”
Appl. Environ. Microb. **84** (5), e02224-17
915. **Zech, A., D'Angelo, C., Attinger, S., Fiori, A.** (2018): Revisitation of the dipole tracer test for heterogeneous porous formations
Adv. Water Resour. **115**, 198 - 206
916. **Zehnsdorf, A., Moeller, L., Stabenau, N., Bauer, A., Wedwitschka, H., Gallegos, D., Stinner, W., Herbes, C.** (2018): Biomass potential analysis of aquatic biomass and challenges for its use as a nonconventional substrate in anaerobic digestion plants
Eng. Life Sci. **18** (7), 492 - 497
917. **Zehnsdorf, A., Scherber, A., Schmidt, S., Ebersbach, A.T., Bernhard, K., Jentzsch, D., Schlenker, U.** (2018): Abwasserreinigung mit Schilf in einer mobilen Wurzelraumkläranlage. Waste water treatment with reeds in a mobile root space treatment plant
Chem. Ing. Tech. **90** (3), 333 - 339
918. Zhahnina, K., Louie, K.B., Hao, Z., Mansoori, N., **Nunes da Rocha, U.**, Shi, S., Cho, H., Karaoz, U., Loqué, D., Bowen, B.P., Firestone, M.K., Northen, T.R., Brodie, E.L. (2018): Dynamic root exudate chemistry and microbial substrate preferences drive patterns in rhizosphere microbial community assembly
Nat. Microbiol. **3** (4), 470 - 480

919. **Zhang, C., Harpke, A., Kühn, E., Páramo, F., Settele, J., Stefanescu, C., Wiemers, M., Zhang, Y., Schweiger, O.** (2018):
Applicability of butterfly transect counts to estimate species richness in different parts of the palaearctic region
Ecol. Indic. **95** (Part 1), 735 - 740
920. **Zhang, D., Wu, L., Yao, J., Herrmann, H., Richnow, H.-H.** (2018):
Carbon and hydrogen isotope fractionation of phthalate esters during degradation by sulfate and hydroxyl radicals
Chem. Eng. J. **347**, 111 - 118
921. Zhang, N., Li, Y., **Wubet, T.**, Bruelheide, H., Liang, Y., **Purahong, W.**, **Buscot, F.**, Ma, K. (2018):
Tree species richness and fungi in freshly fallen leaf litter: Unique patterns of fungal species composition and their implications for enzymatic decomposition
Soil Biol. Biochem. **127**, 120 - 126
922. Zhang, Q., Ji, S., Chai, L., Yang, F., Zhao, M., Liu, W., **Schüürmann, G.**, Ji, L. (2018):
Metabolic mechanism of aryl phosphorus flame retardants by cytochromes P450: A combined experimental and computational study on triphenyl phosphate
Environ. Sci. Technol. **52** (24), 14411 - 14421
923. **Zhang, S., Adrian, L., Schüürmann, G.** (2018):
Interaction mode and regioselectivity in vitamin B₁₂-dependent dehalogenation of aryl halides by *Dehalococcoides mccartyi* strain CBDB1
Environ. Sci. Technol. **52** (4), 1834 - 1843
924. Zhao, S., Rogers, M.J., **Ding, C.**, He, J. (2018):
Reductive debromination of polybrominated diphenyl ethers - Microbes, processes and dehalogenases
Front. Microbiol. **9**, art. 1292
925. Zhou, J., Laube, C., Knolle, W., Naumov, S., Prager, A., **Kopinke, F.-D.**, Abel, B. (2018):
Efficient chlorine atom functionalization at nanodiamond surfaces by electron beam irradiation
Diam. Relat. Mat. **82**, 150 - 159
926. Zhuang, H., Yago, M., **Settele, J.**, **Li, X.**, Ueshima, R., Grishin, N.V., Wang, M. (2018):
Species richness of Eurasian *Zephyrus hairstreaks* (Lepidoptera: Lycaenidae: Theclini) with implications on historical biogeography: An NDM/VNDM approach
PLOS One **13** (1), e0191049

927. Zimmermann, J., Durek, P., Kühl, A.A., **Schattenberg, F.**, Maschmeyer, P., Siracusa, F., Lehmann, K., Westendorf, K., Weber, M., Riedel, R., **Müller, S.**, Radbruch, A., Chang, H.-D. (2018):
The intestinal microbiota determines the colitis-inducing potential of T-bet-deficient Th cells in mice
Eur. J. Immunol. **48** (1), 161 - 167
928. **Zink, M., Mai, J., Cuntz, M., Samaniego, L.** (2018):
Conditioning a hydrologic model using patterns of remotely sensed land surface temperature
Water Resour. Res. **54** (4), 2976 - 2998
929. Ziv, G., Hassall, C., **Bartkowski, B.**, **Cord, A.F.**, **Kaim, A.**, Kalamandeen, M., Landaverde-González, P., Melo, J.L.B., **Seppelt, R.**, Shannon, C., **Václavík, T.**, Zoderer, B.M., **Beckmann, M.** (2018):
A bird's eye view over ecosystem services in Natura 2000 sites across Europe
Ecosystem Services **30** (Part B), 287 - 298
930. Zulian, G., Stange, E., Woods, H., Carvalho, L., Dick, J., Andrews, C., Baró, F., Vizcaino, P., Barton, D.N., Nowell, M., Rusch, G.M., Autunes, P., Fernandes, J., Ferraz, D., dos Santos, R.F., Aszalós, R., Arany, I., Czúcz, B., **Priess, J.A.**, **Hoyer, C.**, Bürger-Patricio, G., Lapola, D., Mederly, P., Halabuk, A., Bezak, P., Koppenothen, L., Viinikka, A. (2018):
Practical application of spatial ecosystem service models to aid decision support
Ecosystem Services **29** (Part C), 465 - 480
931. Zwarg, J.R.R.M., Morales, D.A., Maselli, B.S., **Brack, W.**, Umbuzeiro, G.A. (2018):
Miniaturization of the microsuspension Salmonella/microsome assay in agar microplates
Environ. Mol. Mutagen. **59** (6), 488 - 501

Artikel in anderen Zeitschriften

932. **Arfan, M., Pe'er, G., Bauch, B., Settele, J., Henle, K., Klenke, R.** (2018):
Evaluating presence data versus expert opinions to assess occurrence, habitat preferences and landscape permeability: a case study of butterflies
Environments **5** (3), art. 36
933. **Attinger, S.** (2018):
Wie (un)sicher ist die Zukunft? Smarte Modelle in der Umweltforschung. Essay
Umwelt Perspektiven (August 2018), 2 - 3
934. **Bartkowski, B.** (2018):
Nach uns die Sintflut? Degrowth und die Suche nach Alternativen zum Wachstumsparadigma
Hirschberg **71** (7-8), 428 - 431
935. **Beck, S.** (2018):
Negative Emissionen – Hoffnungsträger oder trojanisches Pferd der Klimapolitik?
Standpunkt
Umwelt Perspektiven (August 2018), 12 - 13
936. **Beck, S., Mahony, M.** (2018):
The politics of anticipation: the IPCC and the negative emissions technologies experience
Global Sustainability **1**, e8
937. **Bonn, A., Hotes, S.** (2018):
IPBES-AG : IPBES-Assessment-Berichte auf dem Weg zur Anwendung - Veranstaltung am 9.10.2018 in Berlin
Nachrichten der Gesellschaft für Ökologie **48** (1), 14
938. **Bonn, A., Hotes, S.** (2018):
IPBES-AG : Was tun mit den neuen IPBES-Assessments?
Nachrichten der Gesellschaft für Ökologie **47** (2), 14 - 15
939. **Borchardt, D.** (2018):
Wassersicherheit bis 2030 - Utopie oder realistisches Ziel? Essay
Umwelt Perspektiven (Dezember 2018), 2 - 3
940. **Carl, G., Levin, S.C., Kühn, I.** (2018):
spind: an R package to account for spatial autocorrelation in the analysis of lattice data
Biodiversity Data Journal **6**, art. e20760
941. **Craven, D., Knight, T.M., Barton, K.E., Bialic-Murphy, L., Cordell, S., Giardina, C.P., Gillespie, T.W., Ostertag, R., Sack, L., Chase, J.M.** (2018):
OpenNahele: the open Hawaiian forest plot database
Biodiversity Data Journal **6**, art. e28406

942. Depayras, S., Kondakova, T., Merlet-Machour, N., **Heipieper, H.J.**, Barreau, M., Catovic, C., Feuilloley, M., Orange, N., Duclairoir-Poc, C. (2018): Impact of gaseous NO₂ on *P. fluorescens* strain in the membrane adaptation and virulence *International Journal of Environmental Impacts* **1** (2), 183 - 192
943. **Fischer, C.**, Beichler, S.A., Damm, C., Foeckler, F., Gelhaus, M., Gerstner, L., Pusch, M., Rumm, A., Stammel, B., **Scholz, M.** (2018): River Ecosystem Service Index (RESI) - Erfassung und Bewertung der Ökosystemleistung "Habitatbereitstellung" *Artenschutzreport* (38), 14 - 17
944. **Gawel, E.** (2018): Friedhofsgebühren unter Wettbewerbsbedingungen kalkulieren *Bestattung* (5), 11
945. **Gawel, E.** (2018): Anwender sollen Folgekosten tragen *Agrarzeitung* (Freitag, 13.07.2018), 28
946. **Gawel, E.** (2018): Für eine nachhaltige Finanzierung von Verkehrsinfrastruktur *ifo Schnelldienst* **71** (22), 10 - 13
947. **Gawel, E.** (2018): Ökonomische Herausforderungen der Mikroschadstoffpolitik *wwt Modernisierungsreport 2018/2019* , 24 - 28
948. **Gawel, E.** (2018): Klimapolitik in Zeiten der GroKo - ein Politikversagen wird besichtigt. Standpunkt *Zeitschrift für Umweltrecht (ZUR)* **29** (3), 129 - 130
949. **Gawel, E.** (2018): Die vier Ursachen von Kostenunterdeckung *Friedhofskultur* **108** (2), 24 - 28
950. **Gawel, E.** (2018): Neustart der Klimapolitik erforderlich *ifo Schnelldienst* **71** (1), 8 - 10
951. **Gawel, E., Amberg, M.** (2018): Ausschreibungen im EEG – eine Auswertung der bisherigen Erfahrungen *Energiewirtschaftliche Tagesfragen* **68** (7/8), 24 - 30

952. **Gawel, E., Purkus, A., Pannicke, N., Hagemann, N.** (2018): Herausforderungen einer nachhaltigen Bioökonomiepolitik
Ökologisches Wirtschaften **33** (1), 19 - 20
953. Glante, F., Mathews, J., **Hansjürgens, B.** (2018): 10 Forderungen für einen zukunftsweisenden und nachhaltigen Bodenschutz : Ergebnisse aus der Tagung „500 Jahre Reformation – auch ein Thema für den Boden?“
Bodenschutz **23** (2), 53 - 57
954. **Hansjürgens, B.** (2018): Stadtnatur – Gesundheit schützen, Lebensqualität erhöhen
Die Gemeinde : Zeitschrift für die kommunale Selbstverwaltung in Schleswig-Holstein **70** (3), 67 - 69
955. **Hansjürgens, B.** (2018): Bodenschutz: Raus aus der Nische! Editorial
Bodenschutz **23** (1), 1
956. **Harnisch, F.**, Blombach, B., Buyel, J., **Centler, F.**, Classen, T., Ebert, B.E., Eyer, C., Dohnt, K., Grünberger, A., Jandt, U., Jung, S., Kara, S., Regestein, L., Schmid, J., Tischler, D., Wierckx, N. (2018): Revisionsbedürftig? Rechte und Pflichten akademischer Nachwuchsführungskräfte
Forschung & Lehre **25** (9), 788 - 789
957. **Harnisch, F.**, Urban, C. (2018): Elektrobioraffinerien: Synergien zwischen elektrochemischen und mikrobiologischen Stoffumwandlungen nutzbar machen
Angew. Chem. **130** (32), 10168 - 10175
958. **Hecker, S.**, Bonney, R., Haklay, M., Höller, F., Hofer, H., Goebel, C., Gold, M., Makuch, Z., Ponti, M., **Richter, A.**, Robinson, L., Iglesias, J.R., Owen, R., Peltola, T., Sforzi, A., Shirk, J., Vogel, J., Vohland, K., Witt, T., **Bonn, A.** (2018): Innovation in citizen science – perspectives on science-policy advances. Meeting report
Citizen Science: Theory and Practice **3** (1), 4
959. Hofmann, J., **Ibisch, R.**, Karthe, D., Scharaw, B., **Schäffer, M.**, **Hartwig, M.**, **Theuring, P.**, **Rode, M.**, Avlyush, S., Watson, V., Bremerich, V., Osor, G., **Kaus, A.**, **Westphal, K.**, **Pfeiffer, M.**, **Priess, J.**, **Schweitzer, C.**, Krätz, D., Gröning, J., Hürdler, J., Batbayar, G., Heldt, S., **Büttner, O.**, **Borchardt, D.** (2018): Metadata describing the Kharaa Yeröö River Basin Water Quality Database
Freshwater Metadata Journal **36** , 1 - 10

960. **Knapp, S.** (2018):
Grün in der Stadt: Potenziale zum Erhalt der Biodiversität
Die Gemeinde : Zeitschrift für die kommunale Selbstverwaltung in Schleswig-Holstein **70** (3), 70 - 71
961. **Köck, W.** (2018):
Die PFC-Grundwasserkontamination in Mittelbaden als Problem des Wasserrechts und der Flussgebietsbewirtschaftung
NWZ **37** (24), 1831 - 1838
962. **Köck, W.** (2018):
Für ein umweltgerechtes Agrarrecht. Standpunkt
Zeitschrift für Umweltrecht (ZUR) **29** (9), 449 - 450
963. **Köck, W.** (2018):
Energiewende und Artenschutz – 12. VUR/ZUR-Fachgespräch. Editorial
Zeitschrift für Umweltrecht (ZUR) **29** (11), 577 - 578
964. **Köck, W., Bovet, J.** (2018):
Die Anwendung des Artenschutzrechts bei der Zulassung von
Erneuerbare-Energien-Projekten – am Beispiel der landseitigen Windenergie
Zeitschrift für Umweltrecht (ZUR) **29** (11), 579 - 586
965. **Köck, W., Bovet, J., Tietz, H.** (2018):
Mengensteuerung der baulichen Flächenneuinanspruchnahme - zur Notwendigkeit eines
Flächenzertifikatehandelsgesetzes
Zeitschrift für Umweltrecht (ZUR) **29** (2), 67 - 75
966. **Köck, W., Dilling, O.** (2018):
Was bleibt? Deutsches Umweltrecht in vergleichender Perspektive
Die öffentliche Verwaltung **71** (15), 594 - 605
967. **Köck, W., Markus, T.** (2018):
30 Jahre "Robbenklage": Zur Aktualität der Eigenrechte der Natur. Editorial
Zeitschrift für Umweltrecht (ZUR) **29** (4), 193 - 194
968. **Korte, K., Gawel, E.** (2018):
Nachhaltige Stromnetze: angemessene Anreize für die Allokation der Stromerzeugung im Raum
InfrastrukturRecht **15** (1), 9 - 11
969. **Kreuer, D.** (2018):
Sozio-ökologische Folgen von Klimaversicherungen
Ökologie & Landbau **46** (2), 48 - 49

970. **Kühn, E.** (2018):
Nachruf: Dr. Helga Götsche
Oedipus 35 , 48
971. **Kühn, E.** (2018):
Spazieren gehen für die Wissenschaft
MINT-Zirkel : Zeitung für Mathematik, Informatik, Naturwissenschaften, Technik 7 (1), 1 - 2
972. **Kühn, E.** (2018):
Vorstellung Fotokalender „Schmetterlinge an Gräsern“ von Andreas Kolossa
Oedipus 35 , 46
973. **Kühn, E., Musche, M., Harpke, A., Feldmann, R., Wiemers, M., Hirneisen, N., Settele, J.** (2018):
Editorial
Oedipus 35 , 4
974. **Kühn, E., Musche, M., Harpke, A., Wiemers, M., Feldmann, R., Settele, J.** (2018):
Tagfalter-Monitoring Deutschland: Jahresauswertung 2017
Oedipus 35 , 5 - 36
975. **Lange, M., Guberti, V., Thulke, H.-H.** (2018):
Understanding ASF spread and emergency control concepts in wild boar populations using individual-based modelling and spatio-temporal surveillance data
EFSA Supporting Publication 15 (11), EN-1521
976. Lee, H.-L., Lin, Y.-P., Petway, J.R., **Settele, J.**, Lien, W.-Y. (2018):
Consumption-based blockchain accounting of telecoupled global land resource debtors and creditors. Editorial
Environments 5 (5), art. 51
977. **Lepenies, R., MacKay, K., Quigley, M.** (2018):
Three challenges for behavioural science and policy: the empirical, the normative and the political
Behav. Public Policy 2 (2), 174 - 182
978. Lin, Y.-P., Petway, J.R., Lien, W.-Y., **Settele, J.** (2018):
Blockchain with artificial intelligence to efficiently manage water use under climate change. Editorial
Environments 5 (3), art. 34

979. Lin, Y.-P., **Settele, J.**, Petway, J.R. (2018):
Ecoregional and archetypical considerations for national responses to food security under climate change. Editorial
Environments **5** (3), art. 32
980. **Möckel, S.** (2018):
Anmerkung zu BVerwG, U. v. 21.09.2017 - 7 C 29.15 - (Umweltschadensgesetz: Keine Zurechnung von Gutachterverschulden)
Zeitschrift für Umweltrecht (ZUR) **29** (4), 235 - 236
981. **Möckel, S.** (2018):
Bundesnaturschutzgesetz : Novelle braucht weitere Neuerungen
Umwelt aktuell (4), 4 - 5
982. **Möckel, S.** (2018):
Entspricht das neue deutsche Düngerecht den im EuGH-Urteil vom 21.06.2018 genannten Anforderungen?
NVwZ **37** (21), 1599 - 1604
983. Oelmann, M., Roters, B., **Gawel, E.** (2018):
Nachhaltige Gebührenmodelle in der Abwasserentsorgung Teil 2: Zur Eignung alternativer Grundgebührenmodelle für Schmutzwasser. Sustainable models for wastewater management fees Part 2: The suitability of alternative basic fee models for wastewater
KA - Korrespondenz Abwasser, Abfall **65** (9), 808 - 817
984. Otto, P., Kellner, R., **Kindler, A.**, **Zehnsdorf, A.** (2018):
Untersuchungen zur Verbreitung, Ökologie und Morphologie der *Elodea*- und *Myriophyllum*-Arten der Leipziger Region
Berichte der Arbeitsgemeinschaft Sächsischer Botaniker Neue Folge **23**, 33 - 69
985. **Reese, M.** (2018):
Die Wasserrahmenrichtlinie in der Umsetzungskrise. Fortbestehende Umsetzungsdefizite und rechtlicher Handlungsbedarf zur ökologischen Gewässerentwicklung
NVwZ **37** (21), 1592 - 1599
986. **Reese, M.** (2018):
Für die Verkehrswende ein Gemeindeverkehrsplanungsgesetz. Standpunkt
Zeitschrift für Umweltrecht (ZUR) **29** (6), 321 - 322
987. **Richter, A.** (2018):
Citizen science: Forschung für alle oder forschen mit allen? Standpunkt
Umwelt Perspektiven (Dezember 2018), 16 - 17

988. **Richter, A.**, Siebert, J., **Bonn, A.** (2018):
Citizen science - gemeinsam Wissen schaffen
Laborjournal **25** (7-8), 35 - 37
989. Roy, H.E., Groom, Q., Adriaens, T., Agnello, G., Antic, M., Archambeau, A.-S., Bacher, S., **Bonn, A.**, Brown, P., Brundu, G., Claramunt López, B., Cleary, M., Cogălniceanu, D., de Groot, M., De Sousa, T., Deidun, A., Essl, F., Fišer Pečnikar, Ž., Gazda, A., Gervasini, E., Glavendekic, M.M., Gigot, G., Jelaska, S.D., Jeschke, J.M., Kaminski, D., Karachle, P.K., Komives, T., Lapin, K., Lucy, F., Marchante, E., Marisavljevic, D., Marja, R., Martín-Torrijos, L., Martinou, A., Matosevic, D., Mifsud, C.M., Motiejūnaitė, J., Ojaveer, H., Pasalic, N., Pekárik, L., Per, E., Pergl, J., Pesic, V., Pocock, M., Reino, L., Ries, C., Rozylowicz, L., Schade, S., Sigurdsson, S., Steinitz, O., Stern, N., Teofilovski, A., Thorsson, J., Tomov, R., Tricarico, E., Trichkova, T., Tsiamis, K., van Valkenburg, J., Vella, N., Verbrugge, L., Vétek, L., Villaverde, C., Witzell, J., Zenetos, A., Cardoso, A.C. (2018):
Increasing understanding of alien species through citizen science (Alien-CSI)
Research Ideas and Outcomes **4**, e31412
990. Schiro, G., Verch, G., **Grimm, V.**, Müller, M.E.H. (2018):
Alternaria and *Fusarium* fungi: differences in distribution and spore deposition in a topographically heterogeneous wheat field
J. Fungi **4** (2), art. 63
991. **Scholz, M.**, Seele, C., Engelmann, R.A., Hartmann, T., Heinrich, J., **Henle, K.**, Herkelrath, A., **Kasperidus, H.D.**, Kirsten, F., **Löffler, F.**, Masurowski, F., Sahlbach, T., Wirth, C., Riedel, J. (2018):
Das Projekt Lebendige Luppe – ein Beitrag zur Renaturierung der Leipziger Nord-west-aue
Auenmagazin **14**, 14 - 21
992. **Schrön, M.** (2018):
Von Fluten, Dürren und der Hilfe aus dem All
Umwelt Perspektiven (Dezember 2018), 18 - 19
993. **Schwarze, R.** (2018):
Licht und Schatten: Was verspricht und was bringt der neue Koalitionsvertrag in der Klima- und Energiepolitik?
Zeitschrift für Umweltpolitik und Umweltrecht **41** (1), 98 - 100
994. **Settele, J.** (2018):
Vereint gegen Insektenschwund!
Top Agrar **46** (1), 8

995. **Settele, J.** (2018):
Buchbesprechung „Tagaktive Nachtfalter“ von Rainer Ulrich
Oedipus **35**, 45
996. Shrestha, S., Hoang, N.A.T., **Shrestha, P.K.**, Bhatta, B. (2018):
Climate change impact on groundwater recharge and suggested adaptation strategies for selected Asian cities
APN Science Bulletin **8** (1), 41 - 51
997. **Spangenberg, J.H., Settele, J.** (2018):
Can't see the wood for the trees?
ISDRS Newsletter (1), 9
998. **Strehlitz, B., Hunger, S., Kuchenbuch, A., Rosa, L.F.M., Harnisch, F.** (2018):
Bakterien mit Strom füttern - Reaktoren für die Elektrobiotechnologie
ChemieXtra **8** (11), 19 - 21
999. **Strehlitz, B., Hunger, S., Kuchenbuch, A., Rosa, L.F.M., Harnisch, F.** (2018):
Bakterien mit Strom füttern - Reaktoren für die Elektrobiotechnologie fit machen
GIT Labor-Fachzeitschrift **62** (3), 32 - 34
1000. **Strunz, S.** (2018):
Speeding up the energy transition
Nature Sustainability **1**, 390 - 391
1001. Volke, V., **Knapp, S.**, Roloff, A. (2018):
Eschentriebsterben in Leipzig
TASPO Baumzeitung **52** (1), 40 - 42
1002. **Worrich, A.** (2018):
Eine starke Allianz
Umwelt Perspektiven (Dezember 2018), 20 - 21
1003. **Zehnsdorf, A.** (2018):
1. Leipziger Gründachakademie – Studenten erarbeiten Dachnutzungskonzepte
DDV Gründach Aktuell **1**, 16 - 17
1004. **Zehnsdorf, A.** (2018):
Sumpfpflanzen zur Dachbegrünung : verdunstungsintensive Gründächer für das Regenwassermanagement
GebäudeGrün **17** (2), 19 - 22

1005. Zinner, M., **Rink, K.**, Jäkel, R., Feldhoff, K., Grunzke, R., **Fischer, T.**, Song, R., **Walther, M.**, Jejkal, T., **Kolditz, O.**, Nagel, W.E. (2018):
Revision control and automatic documentation for the development numerical models for scientific applications
Int. J. Adv. Softw. **11** (3&4), 214 - 226

Journalherausgaben

1006. Rudnitskaya, A., **Strehlitz, B.**, Lie, D.Y.C., Inci, F., Hung, C.-C. (eds., 2018):
Special issue "Feature papers: State-of-the-art biosensors technology 2018"
Biosensors **9** (1),
1007. **Settele, J.** (ed., 2018):
Special Issue: Rice ecosystem services
Paddy Water Environ. **16** (2), 211-390

Bücher

1008. Gotzmann, I.H., **Bonn, A.**, Büermann, A., Franke, N., Gotzmann, D., **Richter, A.** (2018): Naturerbe erleben – Leitfaden zur Erfassung und Bewertung historischer Ökosystemleistungen auf Naturerbevlächen
Friedrich-Schiller-Universität Jena; Deutsches Zentrum für Integrative Biodiversitätsforschung (iDiv) Halle-Jena-Leipzig; Helmholtz-Zentrum für Umweltforschung (UFZ), Leipzig, 82 S.
1009. **Jang, E., Boog, J., He, W., Kalbacher, T.** (2018):
OpenGeoSys Tutorial. Computational hydrology III: OGS#IPhreeqc coupled reactive transport modeling
SpringerBriefs in Earth System Sciences
Springer International Publishing, Cham, 103 pp.
1010. **Kabisch, S., Kindler, A., Kirschner, H., Söding, M.** (2018):
Leipzigs kleinere Großwohnsiedlungen im Blick : Straße des 18. Oktober, Marienbrunn, Lößnig, Dölitz, Großzschocher, Möckern, Gohlis-Nord, Mockau-West, Mockau-Ost, Thekla, Schönefeld, Sellerhausen, Paunsdorf/Kiebitzmark
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 63 S.
1011. **Lehmann, C., Kolditz, O., Nagel, T.** (2018):
Models of thermochemical heat storage
SpringerBriefs in Energy
Springer, XVII, 89 pp.
1012. **Reese, M., Bedtke, N., Gawel, E., Klauer, B., Köck, W., Möckel, S.** (2018):
Wasserrahmenrichtlinie - Wege aus der Umsetzungskrise : rechtliche, organisatorische und fiskalische Wege zu einer richtlinienkonformen Gewässerentwicklung am Beispiel Niedersachsens
Leipziger Schriften zum Umwelt- und Planungsrecht 37
Nomos, Baden-Baden, 252 S.
1013. **Reese, M., Köck, W.** (2018):
Flussgebietsbewirtschaftung im Bundesstaat : Anforderungen und Perspektiven zur kooperativen Umsetzung der EG-Wasserrahmenrichtlinie am Beispiel der Elbsedimente
Leipziger Schriften zum Umwelt- und Planungsrecht 36
Nomos, Baden-Baden, 251 S.
1014. Schlacke, S., Knodt, M., Böhringer, C., **Gawel, E.**, Geden, O., Germelmann, C.F., Pittel, K., Pitz-Paal, R., Ringel, M., Rodi, M., Tömmel, I. (2018):
Governance für die Europäische Energieunion. Gestaltungsoptionen für die Steuerung der EU-Klima- und Energiepolitik bis 2030
Schriftenreihe zur wissenschaftsbasierten Politikberatung
acatech/Leopoldina/Akademienunion, München/Halle (Saale)/Mainz, 74 S.

1015. **Schulte-Römer, N.**, Dannemann, E., Meier, J. (2018):
Light pollution - a global discussion
Helmholtz Centre for Environmental Research - UFZ, Leipzig, 248 pp.
1016. **Stottmeister, U.** (2018):
Eberhard Leibnitz (1910-1986) und die Chemie Mitteldeutschlands in Forschung und Lehre
Leipziger Universitätsverlag, Leipzig, 155 S.

Buchherausgaben

1017. Altrock, U., Grunze, N., **Kabisch, S.** (eds., 2018):
Großwohnsiedlungen im Haltbarkeitscheck : differenzierte Perspektiven ostdeutscher
Großwohnsiedlungen
Springer VS, Wiesbaden , 335 pp.
1018. Davidson, D.J., **Gross, M.** (eds., 2018):
The Oxford handbook of energy and society
Oxford University Press, New York, XII, 583 pp.
1019. Faßbender, K., **Köck, W.** (Hrsg., 2018):
Aktuelle Entwicklungen bei der Umsetzung der Wasserrahmenrichtlinie : Dokumentation
des 22. Leipziger Umweltrechtlichen Symposions des Instituts für Umwelt- und
Planungsrecht der Universität Leipzig und des Helmholtz-Zentrums für Umweltforschung
- UFZ am 30. und 31. März 2017
Leipziger Schriften zum Umwelt- und Planungsrecht 35
Nomos, Baden-Baden, 150 S.
1020. **Friesen, J.**, Rodríguez-Sinobas, L. (eds., 2018):
Advanced tools for integrated water resources management
Advances in Chemical Pollution, Environmental Management and Protection 3
Elsevier, 296 pp.
1021. **Hecker, S.**, Haklay, M., Bowser, A., Makuch, Z., Vogel, J., **Bonn, A.** (eds., 2018):
Citizen science: innovation in open science, society and policy
UCL Press, London, 496 pp.
1022. **Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A.** (eds., 2018):
Urban transformations - Sustainable urban development through resource efficiency,
quality of life and resilience
Future City 10
Springer International Publishing, Cham, 384 pp.
1023. Koch, H., Hofmann, E., **Reese, M.** (Hrsg., 2018):
Handbuch Umweltrecht. 5., überarb. Aufl.
C.H. Beck, München, LXIX, 1284 S.
1024. **Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S.** (eds., 2018):
Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and
benchmarking. From benchmarking to tutoring
Terrestrial Environmental Sciences
Springer Nature, Cham, XXIII, 301 pp.

1025. **Rink, D., Haase, A.** (Hrsg., 2018):
Handbuch Stadtkonzepte : Analysen, Diagnosen, Kritiken und Visionen
UTB 4955
Verlag Barbara Budrich, Opladen ; Toronto, 494 S.
1026. Schäffer, A., Filser, J., Frische, T., Gessner, M., **Köck, W.**, Kratz, W., **Liess, M.**, Nuppenau, E.A., Roß-Nickoll, M., Schäfer, R., Scheringer, M. (Hrsg., 2018):
Der stumme Frühling: zur Notwendigkeit eines umweltverträglichen Pflanzenschutzes
Diskussion 16
Deutsche Akademie der Naturforscher Leopoldina e.V., Halle (Saale), 65 S.
1027. Song, Y., Xi, B., Zhang, Y., Lei, K., Williams, R., Zhang, M., Kong, W., **Kolditz, O.** (eds., 2018):
Chinese water systems. Volume 1: Liaohe and Songhuajiang River Basins
Terrestrial Environmental Sciences
Springer Nature, Cham, XX, 460 pp.

Buchkapitel

1028. Altrock, U., Grunze, N., **Kabisch, S.** (2018):
Vorwort
In: Altrock, U., Grunze, N., Kabisch, S. (Hrsg.)
Großwohnsiedlungen im Haltbarkeitscheck : differenzierte Perspektiven ostdeutscher Großwohnsiedlungen
Springer VS, Wiesbaden , S. VII - VIII
1029. Altrock, U., Grunze, N., **Kabisch, S.** (2018):
Ostdeutsche Großwohnsiedlungen im Haltbarkeitscheck. Einführung
In: Altrock, U., Grunze, N., Kabisch, S. (Hrsg.)
Großwohnsiedlungen im Haltbarkeitscheck : differenzierte Perspektiven ostdeutscher Großwohnsiedlungen
Springer VS, Wiesbaden , S. 1 - 14
1030. **Banzhaf, E.**, Arndt, T., Ladiges, J. (2018):
Potentials of urban brownfields for improving the quality of urban space
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 221 - 232
1031. **Banzhaf, E.**, **Knapp, S.**, **Koch, F.** (2018):
Part III. Quality of life and ecosystem services : outline
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 233 - 234
1032. **Banzhaf, E.**, Reyes-Paecke, S.M., de la Barrera, F. (2018):
What really matters in green infrastructure for the urban quality of life? Santiago de Chile as a showcase city
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 281 - 300

1033. **Bedtke, N., Gawel, E.** (2018):
Linking transition theories with theories of institutions - Implications for sustainable urban infrastructures between flexibility and stability
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 21 - 44
1034. **Bleicher, A.** (2018):
Das Ende der Abfalleigenschaft - Kulturelle Mechanismen der Reinigung im Recycling
In: Thiel, S., Thomé-Kozmiensky, E., Goldmann, D. (Hrsg.)
Recycling und Rohstoffe, Band 11
Thomé-Kozmiensky Verlag, Neuruppin, S. 125 - 133
1035. **Bonn, A., Hecker, S.**, Bowser, A., Makuch, Z., Vogel, J., Haklay, M. (2018):
Citizen science to foster innovation in open science, society and policy
In: Hecker, S., Haklay, M., Bowser, A., Makuch, Z., Vogel, J., Bonn, A. (eds.)
Citizen science: innovation in open science, society and policy
UCL Press, London, p. 465 - 484
1036. **Boog, J.** (2018):
Application: treatment wetlands
In: Jang, E., Boog, J., He, W., Kalbacher, T. (eds.)
OpenGeoSys Tutorial. Computational hydrology III: OGS#IPhreeqc coupled reactive transport modeling
SpringerBriefs in Earth System Sciences
Springer International Publishing, Cham, p. 63 - 90
1037. Budnik, M., Großmann, K., **Haase, A.**, Hedtke, C., **Kullmann, K.** (2018):
Soziale Heterogenität und Zusammenhalt in Leipzig-Grünau : Wahrnehmungen von Bewohnern und Bewohnerinnen
In: Altrock, U., Grunze, N., Kabisch, S. (Hrsg.)
Großwohnsiedlungen im Haltbarkeitscheck : differenzierte Perspektiven ostdeutscher Großwohnsiedlungen
Springer VS, Wiesbaden , S. 213 - 242
1038. **David, M.** (2018):
Exnovation as a necessary factor in successful energy transitions
In: Gross, M., Davidson, D.J. (eds.)
The Oxford handbook of energy and society
Oxford University Press, New York, p. 519 - 537

1039. Davidson, D.J., **Gross, M.** (2018):
A time of change, a time for change: energy-society relations in the twenty-first century
In: Gross, M., Davidson, D.J. (eds.)
The Oxford handbook of energy and society
Oxford University Press, New York, p. 1 - 12
1040. Depayras, S., **Kondakova, T.**, Heipieper, H.J., Feuilloye, M.G.J., Orange, N., Duclairoir-Poc, C. (2018):
The hidden face of nitrogen oxides species: from toxic effects to potential cure?
In: Soloneski, S., Larramendy, M.L. (eds.)
Emerging pollutants - Some strategies for the quality preservation of our environment
InTechOpen, London, p. 19 - 44
1041. Dieckmann, M., **Reese, M.** (2018):
§ 6 Kreislaufwirtschafts- und Abfallrecht
In: Koch, H., Hofmann, E., Reese, M. (Hrsg.)
Handbuch Umweltrecht. 5., überarb. Aufl.
C.H. Beck, München, S. 377 - 432
1042. **Dilling, O.** (2018):
Wissensallmende oder Werbeplattform? Wikipedia am Scheideweg zwischen
Commoning und Kommerzialisierung
In: Schläppi, D., Gruber, M. (Hrsg.)
*Von der Allmende zur Share Economy: Gemeinbesitz und kollektive Ressourcen in
historischer und rechtlicher Perspektive*
Beiträge zur Rechts-, Gesellschafts- und Kulturkritik 15
BWV, Berliner Wissenschafts-Verlag, Berlin, S. 191 - 210
1043. **Gawel, E., Kuhlicke, C.** (2018):
Efficiency-equity-trade-off as a challenge for shaping urban transformations
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
*Urban transformations - Sustainable urban development through resource efficiency,
quality of life and resilience*
Future City 10
Springer International Publishing, Cham, p. 45 - 60
1044. **Gawel, E., Purkus, A., Pannicke, N., Hagemann, N.** (2018):
A governance framework for a sustainable bioeconomy: Insights from the case of the
German wood-based bioeconomy
In: Leal Filho, W., Borges de Lima, I., Pociovalisteanu, D.-M., Brito, P. (eds.)
Towards a sustainable bioeconomy: principles, challenges and perspectives
World Sustainability Series
Springer International Publishing, Cham, p. 517 - 537

1045. **Gawel, E., Zehnsdorf, A.** (2018):
Part II. Urban resources and governance : outline
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 91 - 92
1046. **Gebhardt, O.** (2018):
Jena, Germany adaptation strategy as an essential supplement to climate change mitigation efforts. Case study 4.3
In: Rosenzweig, C., Solecki, W.D., Romero-Lankao, P., Mehrotra, S., Dhakal, S., Ali Ibrahim, S., Hidalgo, A., Paes, E., Nxumalo, J., Clos, J. (eds.)
Climate change and cities : second assessment report of the urban climate change research network; ARC3.2 summary for city leaders
Cambridge University Press, Cambridge, p. 115 - 118
1047. **Geller, W., Hupfer, M.** (2018):
Seeökosysteme IV: Populationsökologie - Dichte, Wachstum, Reproduktion und Mortalität der Populationen (Teil 1)
In: Hupfer, M., Calmano, W., Fischer, H., Klapper, H. (Hrsg.)
Handbuch Angewandte Limnologie
34. Erg. Lfg. 1/18
Wiley-VCH, Weinheim, S. IV-1.1.6
1048. Gertel, J., **Kreuer, D.** (2018):
Values
In: Gertel, J., Hexel, R. (eds.)
Coping with uncertainty: Youth in the Middle East and North Africa
Saqi Books, London, p. 57 - 79
1049. **Groß, M.** (2018):
Energetische Soziologie
In: Holstenkamp, L., Radtke, J. (Hrsg.)
Handbuch Energiewende und Partizipation
Springer VS, Wiesbaden , S. 177 - 193
1050. **Gross, M.** (2018):
Afterword: Irony and contrarian imaginations
In: Boström, M., Davidson, D.J. (eds.)
Environment and Society: Concepts and Challenges. Palgrave Studies in Environmental Sociology and Policy
Palgrave Macmillan, Cham, p. 375 - 384

1051. **Gross, M.** (2018):
Ecological restoration
In: Castree, N., Hulme, M., Proctor, J.D. (eds.)
Companion to environmental studies
Routledge, Abingdon, p. 595 - 598
1052. **Gross, M.**, Davidson, D.J. (2018):
In closing: from “energy” to “Energy”
In: Gross, M., Davidson, D.J. (eds.)
The Oxford handbook of energy and society
Oxford University Press, New York, p. 539 - 551
1053. **Haase, A., Bedtke, N., Begg, C., Gawel, E., Rink, D., Wolff, M.** (2018):
On the connection between urban sustainability transformations and multiple societal crises
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 61 - 76
1054. **Haase, A.** (2018):
Schrumpfende Stadt
In: Rink, D., Haase, A. (Hrsg.)
Handbuch Stadtkonzepte : Analysen, Diagnosen, Kritiken und Visionen
UTB 4955
Verlag Barbara Budrich, Opladen ; Toronto, S. 405 - 428
1055. **Haase, A., Wolff, M., Rink, D.** (2018):
From shrinkage to regrowth : the nexus between urban dynamics, land use change and ecosystem service provision
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 197 - 219
1056. **Haase, D.** (2018):
Grüne Stadt
In: Rink, D., Haase, A. (Hrsg.)
Handbuch Stadtkonzepte : Analysen, Diagnosen, Kritiken und Visionen
UTB 4955
Verlag Barbara Budrich, Opladen ; Toronto, S. 151 - 168

1057. Habier, J., May, P., **Heintz-Buschart, A.**, Ghosal, A., Wienecke-Baldacchino, A.K., Nolte-'t Hoen, E.N.M., Wilmes, P., Fritz, J.V. (2018):
Extraction and analysis of RNA isolated from pure bacteria-derived outer membrane vesicle
In: Arluisson, V., Valverde, C. (eds.)
Bacterial regulatory RNA : methods and protocols
Methods in Molecular Biology 1737
Humana Press, p. 213 - 230
1058. **Hansjürgens, B.** (2018):
Risikolebensraum Megastadt: Strategien für eine nachhaltige Entwicklung
In: Birken, A. (Hrsg.)
ZukunftsWerte : Verantwortung für die Welt von Morgen
Steidl, Göttingen, S. 238 - 246
1059. **Hansjürgens, B., Brenck, M.**, Bartz, R., Kowarik, I. (2018):
The TEEB approach towards sustainable urban transformations : demonstrating and capturing ecosystem service values
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 117 - 132
1060. **Hansjürgens, B.** (2018):
Stichwort Emissionshandel
In: Oberreuter, H. (Hrsg.)
Staatslexikon : Recht, Wirtschaft, Gesellschaft : in 5 Bänden / herausgegeben von der Görres-Gesellschaft und dem Verlag Herder. 2. Band: Eid - Hermeneutik. 8., völlig neu bearbeitete Auflage
Herder, Freiburg, Br., S. 84 - 86
1061. **Harms, H., Smith, K.E.C., Wick, L.Y.** (2018):
Problems of hydrophobicity/bioavailability: an introduction
In: Krell, T. (ed.)
Cellular ecophysiology of microbe: Hydrocarbon and lipid interactions
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham, p. 3 - 15

1062. **Harms, H., Wick, L.Y., Smith, K.E.C.** (2018):
Matrix - hydrophobic compound interactions
In: Krell, T. (ed.)
Cellular ecophysiology of microbe: Hydrocarbon and lipid interactions
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham, p. 33 - 45
1063. **Hecker, S., Garbe, L., Bonn, A.** (2018):
The European citizen science landscape – a snapshot
In: Hecker, S., Haklay, M., Bowser, A., Makuch, Z., Vogel, J., Bonn, A. (eds.)
Citizen science: innovation in open science, society and policy
UCL Press, London, p. 190 - 200
1064. **Hecker, S., Haklay, M., Bowser, A., Makuch, Z., Vogel, J., Bonn, A.** (2018):
Innovation in open science, society and policy – setting the agenda for citizen science
In: Hecker, S., Haklay, M., Bowser, A., Makuch, Z., Vogel, J., Bonn, A. (eds.)
Citizen science: innovation in open science, society and policy
UCL Press, London, p. 1 - 23
1065. **Hecker, S., Luckas, M., Brandt, M., Kikillus, H., Marenbach, I., Schiele, B., Sieber, A., van Vliet, A.J.H., Walz, U., Wende, W.** (2018):
Stories can change the world – citizen science communication in practice
In: Hecker, S., Haklay, M., Bowser, A., Makuch, Z., Vogel, J., Bonn, A. (eds.)
Citizen science: innovation in open science, society and policy
UCL Press, London, p. 445 - 462
1066. **Hecker, S., Luckas, M., Sieber, A.** (2018):
Storytelling in citizen science – potential for science communication and practical guideline
In: Dörler, D., Heigl, F., Sandén, T. (eds.)
Austrian Citizen Science Conference 2017: Expanding horizons; AGES, Vienna March 02-03, 2017; Conference proceedings
Frontiers Media, Lausanne, p. 25 - 29
1067. **Heipieper, H.J., Fischer, J., Meinhardt, F.** (2018):
Cis-trans isomerase of unsaturated fatty acids: an immediate bacterial adaptive mechanism to cope with emerging membrane perturbation caused by toxic hydrocarbons
In: Krell, T. (ed.)
Cellular ecophysiology of microbe: Hydrocarbon and lipid interactions
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham, p. 385 - 395

1068. **Heipieper, H.J., Martínez, P.M.** (2018):
Toxicity of hydrocarbons to microorganisms
In: Krell, T. (ed.)
Cellular ecophysiology of microbe: Hydrocarbon and lipid interactions
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham, p. 335 - 344
1069. **Heipieper, H.J.**, Pepi, M., Baumgarten, T., **Eberlein, C.** (2018):
Surface properties and cellular energetics of bacteria in response to the presence of hydrocarbons
In: Krell, T. (ed.)
Cellular ecophysiology of microbe: Hydrocarbon and lipid interactions
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham, p. 397 - 408
1070. Herbst, F.-A., **Jehmlich, N.**, **von Bergen, M.**, Schmidt, F. (2018):
Sulfur-³⁴S and ³⁶S stable isotope labeling of amino acids for quantification (SULAQ_{34/36}) of proteome analyses
In: Becher, D. (ed.)
Microbial proteomics : methods and protocols
Methods in Molecular Biology 1841
Humana Press, p. 163 - 174
1071. Horta, A., **Gross, M.** (2018):
Digital technologies in the transition to a sustainable energy system: knowledge-related challenges from everyday life
In: Delicado, A., Domingos, N., de Sousa, L. (eds.)
Changing societies: legacies and challenges. Vol. III. The diverse worlds of sustainability
Imprensa de Ciências Sociais, Lisboa, p. 277 - 296
1072. Horta, A., **Gross, M.** (2018):
On cooling the relevance out
In: Strassheim, J., Nasu, H. (eds.)
Relevance and irrelevance : theories, factors and challenges
Age of access? - Grundfragen der Informationsgesellschaft 9
De Gruyter Saur, Berlin ; München ; Boston, Mass., p. 187 - 205
1073. **Huang, Y., Shao, H.** (2018):
H² processes
In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.)
Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 145 - 155

1074. **Jang, E., Boog, J.** (2018):
Software requirements and installation
In: Jang, E., Boog, J., He, W., Kalbacher, T. (eds.)
OpenGeoSys Tutorial. Computational hydrology III: OGS#IPhreeqc coupled reactive transport modeling
SpringerBriefs in Earth System Sciences
Springer International Publishing, Cham, p. 15 - 23
1075. **Jang, E., He, W.** (2018):
Methods
In: Jang, E., Boog, J., He, W., Kalbacher, T. (eds.)
OpenGeoSys Tutorial. Computational hydrology III: OGS#IPhreeqc coupled reactive transport modeling
SpringerBriefs in Earth System Sciences
Springer International Publishing, Cham, p. 7 - 13
1076. **Jang, E.** (2018):
Application: nitrate reduction processes
In: Jang, E., Boog, J., He, W., Kalbacher, T. (eds.)
OpenGeoSys Tutorial. Computational hydrology III: OGS#IPhreeqc coupled reactive transport modeling
SpringerBriefs in Earth System Sciences
Springer International Publishing, Cham, p. 37 - 61
1077. **Jang, E., Kalbacher, T.** (2018):
File description
In: Jang, E., Boog, J., He, W., Kalbacher, T. (eds.)
OpenGeoSys Tutorial. Computational hydrology III: OGS#IPhreeqc coupled reactive transport modeling
SpringerBriefs in Earth System Sciences
Springer International Publishing, Cham, p. 25 - 29
1078. **Jean-Baptiste, N., Olivotto, V., Porio, E., Kombe, W., Yulo-Loyzaga, A., Gencer, E., Leone, M., Lucon, O., Natty, M.** (2018):
Housing and informal settlements
In: Rosenzweig, C., Solecki, W.D., Romero-Lankao, P., Mehrotra, S., Dhakal, S., Ali Ibrahim, S., Hidalgo, A., Paes, E., Nxumalo, J., Clos, J. (eds.)
Climate change and cities : second assessment report of the urban climate change research network
Cambridge University Press, Cambridge, p. 399 - 431

1079. Jiang, S., Zhu, Q., **Jomaa, S.** (2018):
Field-controlled hydrological experiments in red soil-covered areas (South China): a review
In: Liu, J.-F., Gu, W.-Z. (eds.)
Hydrology of artificial and controlled experiments
InTechOpen, London, p. 185 - 196
1080. **Kabisch, S., Haase, A.** (2018):
Part I. Conceptual approaches of sustainable urban transformations : outline
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 1 - 2
1081. **Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Zehnsdorf, A.** (2018):
Reflections
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 375 - 378
1082. **Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Zehnsdorf, A.** (2018):
Introduction: Urban transformations – Sustainable urban development through resource efficiency, quality of life and resilience
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. XVII - XXVIII
1083. **Kabisch, S.**, Kraas, F. (2018):
Megastadt
In: Rink, D., Haase, A. (Hrsg.)
Handbuch Stadtkonzepte : Analysen, Diagnosen, Kritiken und Visionen
UTB 4955
Verlag Barbara Budrich, Opladen ; Toronto, S. 213 - 236

1084. **Kabisch, S., Ueberham, M., Schlink, U., Hertel, D., Mohamdeen, A.M.S.** (2018): Local residential quality from an interdisciplinary perspective : combining individual perception and micrometeorological factors
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 235 - 255
1085. **Kabisch, S., Ueberham, M., Söding, M.** (2018): Dynamiken der Großwohnsiedlung Leipzig-Grünau aus Bewohnersicht in der Langzeitperspektive
In: Altrock, U., Grunze, N., Kabisch, S. (Hrsg.)
Großwohnsiedlungen im Haltbarkeitscheck : differenzierte Perspektiven ostdeutscher Großwohnsiedlungen
Springer VS, Wiesbaden , S. 119 - 143
1086. **Kalbacher, T.** (2018):
Introduction
In: Jang, E., Boog, J., He, W., Kalbacher, T. (eds.)
OpenGeoSys Tutorial. Computational hydrology III: OGS#IPhreeqc coupled reactive transport modeling
SpringerBriefs in Earth System Sciences
Springer International Publishing, Cham, p. 1 - 6
1087. **Kästner, M., Miltner, A.** (2018): SOM and microbes—what is left from microbial life
In: Garcia, C., Nannipieri, P., Hernandez, T. (eds.)
The future of soil carbon : its conservation and formation
Elsevier, London, p. 125 - 163
1088. **Kieslinger, B., Schäfer, T., Heigl, F., Dörler, D., Richter, A., Bonn, A.** (2018): Evaluating citizen science: towards an open framework
In: Hecker, S., Haklay, M., Bowser, A., Makuch, Z., Vogel, J., Bonn, A. (eds.)
Citizen science: innovation in open science, society and policy
UCL Press, London, p. 81 - 95

1089. **Kindler, A., Klimeczek, H.-J., Franck, U.** (2018):
Socio-spatial distribution of airborne outdoor exposures – An indicator for environmental quality, quality of life, and environmental justice : the case study of Berlin
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 257 - 279
1090. **Klassert, C., Gawel, E., Sigel, K., Klauer, B.** (2018):
Sustainable transformation of urban water infrastructure in Amman, Jordan – meeting residential water demand in the face of deficient public supply and alternative private water markets
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 93 - 115
1091. **Kleinsteuber, S.** (2018):
Metagenomics of methanogenic communities in anaerobic digesters
In: Stams, A.J.M., Sousa, D.Z. (eds.)
Biogenesis of hydrocarbons
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham,
1092. **Knapp, S., Haase, D., Klotz, S., Schwarz, N.** (2018):
Do urban biodiversity and urban ecosystem services go hand in hand, or do we just hope it is that easy?
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 301 - 312

1093. **Koch, F.**, Ahmad, S. (2018):
How to measure progress towards an inclusive, safe, resilient and sustainable city?
Reflections on applying the indicators
of sustainable development goal 11 in Germany and India
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 77 - 90
1094. **Koch, F.** (2018):
Europäische Stadt
In: Rink, D., Haase, A. (Hrsg.)
Handbuch Stadtkonzepte : Analysen, Diagnosen, Kritiken und Visionen
UTB 4955
Verlag Barbara Budrich, Opladen ; Toronto, S. 87 - 105
1095. **Köck, W., Fischer, H.** (2018):
Gesundheitsfördernde Stadtentwicklung und Umweltgerechtigkeit als Problem des Städtebau- und Bauplanungsrechts. Health-promoting urban development and environmental justice as an issue of urban planning legislation
In: Köckler, H., Ritzinger, A., Rüdiger, A. (Hrsg.)
Planung für gesundheitsfördernde Städte
Forschungsberichte der ARL 8
Akademie für Raumforschung und Landesplanung, Hannover, S. 145 - 165
1096. **Köck, W.** (2018):
Die Mitwirkung der Zivilgesellschaft am Verwaltungshandeln - eine Bilanz
In: Scherzberg, A., Can, O., Dogun, I. (Hrsg.)
Staat und Zivilgesellschaft
Deutsch-Türkisches Forum für Staatsrechtslehre 17
LIT Verlag, Münster [u.a.], S. 61 - 84
1097. **Kolditz, O., Nagel, T., Shao, H.** (2018):
Introduction
In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.)
Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 3 - 13

1098. **Krellenberg, K., Kuhlicke, C.** (2018):
Part IV. Urban risks and resilience : outline
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 313 - 314
1099. **Krellenberg, K.** (2018):
Science-policy interface in Santiago de Chile: opportunities and challenges to effective action. Case study 16.1
In: Rosenzweig, C., Solecki, W.D., Romero-Lankao, P., Mehrotra, S., Dhakal, S., Ali Ibrahim, S., Hidalgo, A., Paes, E., Nxumalo, J., Clos, J. (eds.)
Climate change and cities : second assessment report of the urban climate change research network
Cambridge University Press, Cambridge, p. 599 - 600
1100. **Kuhlicke, C., Krellenberg, K., Welz, J.** (2018):
Resilience, adaptation and transformation : conceptual and empirical insights from two case studies in Germany and Chile
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 315 - 326
1101. **Kuhlicke, C.** (2018):
Resiliente Stadt
In: Rink, D., Haase, A. (Hrsg.)
Handbuch Stadtkonzepte : Analysen, Diagnosen, Kritiken und Visionen
UTB 4955
Verlag Barbara Budrich, Opladen ; Toronto, S. 359 - 380
1102. **Kühnel, D.** (2018):
Chapter 9. Progress towards risk assessment for engineered nanomaterials
In: Dhawan, A., Anderson, D., Shanker, R. (eds.)
Nanotoxicology: Experimental and Computational Perspectives
Issues in Toxicology 35
Royal Society of Chemistry (RSC), Cambridge, p. 232 - 247

1103. Leitner, D., **Kühn, I.** (2018):
Dispersal in plants and animals
In: Bunde, A., Caro, J., Kärger, J., Vogl, G. (eds.)
Diffusive spreading in nature, technology and society
Springer, Cham, p. 29 - 47
1104. Lenz, V., Rönsch, C., Schaubach, K., Bohnet, S., **Thrän, D.** (2018):
Transitioning the heat supply system – challenges with special focus on bioenergy in the context of urban areas
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 173 - 196
1105. **Lepenies, R.**, Małecka, M. (2018):
The ethics of behavioural public policy
In: Lever, A., Poama, A. (eds.)
The Routledge handbook of ethics and public policy
Routledge, Abingdon, p. 513 - 525
1106. **Lu, R.**, Watanabe, N., **Jang, E.**, **Shao, H.** (2018):
RTM processes
In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.)
Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 253 - 258
1107. **Magri, F.**, Cacace, M., **Fischer, T.**, Naumov, D., **Wang, W.**, Watanabe, N., **Zheng, T.**, **Miao, X.-Y.**, **Nagel, T.**, **Walther, M.** (2018):
HT (convection) processes
In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.)
Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 157 - 177

1108. Majer, S., Wurster, S., Moosmann, D., Ladu, L., Sumfleth, B., **Thrän, D.** (2018): Gaps and research demand for sustainability certification and standardisation in a sustainable bio-based economy in the EU
In: Morone, P. (ed.)
Sustainability transition towards a bio-based economy: new technologies, new products, new policies. Printed edition of the special issue published in Sustainability
Molecular Diversity Preservation International (MDPI), Basel, p. 186 - 229
1109. McCullough, C.M., **Schultze, M.**, Vandenberg, J. (2018): Realising beneficial end uses for pit lakes
In: Drebendstedt, C., von Bismarck, F., Fourie, A., Tibbett, M. (eds.)
Mine Closure 2018 : Proceedings of the 12th International Conference on Mine Closure, 3 – 7 September 2018, Leipzig, Germany
TU Bergakademie Freiberg, Freiberg, p. 487 - 494
1110. **Meyer, V.** (2018): Decision support on flood management in complex urban settings. Is risk assessment the right approach or do we need decision heuristics?
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 363 - 373
1111. **Miao, X.-Y.**, Maßmann, J., **Nagel, T.**, Naumov, D., Parisio, F., Vogel, P. (2018): M processes
In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.)
Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 37 - 116
1112. **Möckel, S.** (2018): Mit risikobasierten Abgaben den Pestizideinsatz und seine Folgen minimieren
In: Engelsman, V., Geier, B. (Hrsg.)
Die Preise lügen : warum uns billige Lebensmittel teuer zu stehen kommen
oekom, München, S. 91 - 100

1113. **Möckel, S.** (2018):
Die Landwirtschaft unter dem Druck des europäischen Wasserrechts
In: Faßbender, K., Köck, W. (Hrsg.)
Aktuelle Entwicklungen bei der Umsetzung der Wasserrahmenrichtlinie : Dokumentation des 22. Leipziger Umweltrechtlichen Symposions des Instituts für Umwelt- und Planungsrecht der Universität Leipzig und des Helmholtz-Zentrums für Umweltforschung - UFZ am 30. und 31. März 2017
Leipziger Schriften zum Umwelt- und Planungsrecht 35
Nomos, Baden-Baden, S. 221 - 257
1114. **Nagel, T.**, Ostermeier, P., Seitz, G., Class, H., Helmig, R. (2018):
THC-processes
In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.)
Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 259 - 270
1115. **Nivala, J., Zehnsdorf, A., van Afferden, M., Müller, R.A.** (2018):
Green infrastructure for increased resource efficiency in urban water management
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 133 - 143
1116. **Nixdorf, E.**, Song, Y., Xi, B., Zhang, Y., Kun, L., Kong, W., Zhang, M., Williams, R., **Kolditz, O.** (2018):
Introduction to the Sustain H2O project
In: Song, Y., Xi, B., Zhang, Y., Lei, K., Williams, R., Zhang, M., Kong, W., Kolditz, O. (eds.)
Chinese water systems. Volume 1: Liaohe and Songhuajiang River Basins
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 1 - 7
1117. **Nixdorf, E.**, Sun, Y., Su, J., **Kolditz, O.**, Xi, B. (2018):
Groundwater sources identification and risk reduction management in the Song-Liao-River-Basin. 5.2. Sensitive groundwater sources identification and risk reduction management in the Songhua-Liao-River-Basin
In: Song, Y., Xi, B., Zhang, Y., Lei, K., Williams, R., Zhang, M., Kong, W., Kolditz, O. (eds.)
Chinese water systems. Volume 1: Liaohe and Songhuajiang River Basins
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 422 - 443

1118. Peche, A., Graf, T., Fuchs, L., Neuweiler, I., Neuweiler, J., Huber, M., Vassolo, S., Stoeckl, L., Lindenmaier, F., Neukum, C., **Jing, M., Attinger, S.** (2018): HH processes
In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.)
Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 125 - 144
1119. **Pfeiffer, M.**, Dulamsuren, C., Jäschke, Y., Wesche, K. (2018): Grasslands of China and Mongolia: spatial extent, land use and conservation
In: Squires, V.R., Dengler, J., Feng, H., Huang, L. (eds.)
Grasslands of the world : diversity, management and conservation
CRC Press, Boca Raton, FL, p. 168 - 196
1120. Pirscher, F., **Bartkowski, B.**, Theesfeld, I., Timaeus, J. (2018): Nature-identical outcomes, artificial processes: governance of CRISPR/cas genome editing as an ethical challenge
In: James, H.S. (ed.)
Ethical tensions from new technology: the case of agricultural biotechnology; (Cabi biotechnology)
CABI Publishing, Wallingford, p. 137 - 150
1121. **Reese, M., Gawel, E.** (2018): Sustainable urban water governance – main aims, challenges and institutional approaches in Germany and beyond
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 145 - 171
1122. **Reese, M.** (2018): Kommentierung zu § 38-43 Bundes-Immissionsschutzgesetz
In: Giesberts, L., Reinhardt, M. (Hrsg.)
Umweltrecht : BImSchG, KrWG, BBodSchG, WHG, BNatSchG ; Kommentar. 2. Auflage
C.H. Beck, München, S. 509 - 543

1123. **Reese, M.** (2018):
Climate proofing of urban development : regulatory challenges and approaches in Europe, Germany, and beyond
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 339 - 361
1124. **Reese, M.** (2018):
The proximity principle
In: Krämer, L., Orlando, E. (eds.)
Principles of environmental law. Elgar encyclopedia of environmental law, Vol. 6
Edward Elgar, Cheltenham, p. 219 - 233
1125. **Reißmann, D., Thrän, D., Bezama, A.** (2018):
Is there a best way for the hydrothermal treatment of moist bio-waste? First experiences from a multi-criteria decision-making approach
EUBCE 2018 Papers of the 26th European Biomass Conference: setting the course for a biobased economy. Extracted from the Proceedings of International Conference, 14-17 May, held in Copenhagen, Denmark
ETA-Florence Renewable Energies, Florence, p. 1039 - 1043
1126. **Richter, A., Dörler, D., Hecker, S., Heigl, F., Pettibone, L., Serrano Sanz, F., Vohland, K., Bonn, A.** (2018):
Capacity building in citizen science
In: Hecker, S., Haklay, M., Bowser, A., Makuch, Z., Vogel, J., Bonn, A. (eds.)
Citizen science: innovation in open science, society and policy
UCL Press, London, p. 269 - 283
1127. **Rink, D., Haase, A.** (2018):
Stadtkonzepte für Gegenwart und Zukunft – Abschließende Reflexionen
In: Rink, D., Haase, A. (Hrsg.)
Handbuch Stadtkonzepte : Analysen, Diagnosen, Kritiken und Visionen
UTB 4955
Verlag Barbara Budrich, Opladen ; Toronto, S. 473 - 484
1128. **Rink, D., Haase, A.** (2018):
Stadtkonzepte – Die Idee des Bandes
In: Rink, D., Haase, A. (Hrsg.)
Handbuch Stadtkonzepte : Analysen, Diagnosen, Kritiken und Visionen
UTB 4955
Verlag Barbara Budrich, Opladen ; Toronto, S. 7 - 22

1129. **Rink, D., Kabisch, S., Koch, F., Krellenberg, K.** (2018):
Exploring the extent, selected topics and governance modes of urban sustainability transformations
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 3 - 18
1130. **Rink, D.** (2018):
Nachhaltige Stadt
In: Rink, D., Haase, A. (Hrsg.)
Handbuch Stadtkonzepte : Analysen, Diagnosen, Kritiken und Visionen
UTB 4955
Verlag Barbara Budrich, Opladen ; Toronto, S. 237 - 257
1131. Robinson, L.D., Cawthray, J.L., West, S.E., **Bonn, A.**, Ansine, J. (2018):
Ten principles of citizen science
In: Hecker, S., Haklay, M., Bowser, A., Makuch, Z., Vogel, J., Bonn, A. (eds.)
Citizen science: innovation in open science, society and policy
UCL Press, London, p. 27 - 40
1132. Robles, C., Nair, R.B., **Kleinsteuber, S.**, **Nikolausz, M.**, Sárvári Horváth, I. (2018):
Biogas production: microbiological aspects
In: Tabatabaei, M., Ghanavati, H. (eds.)
Biogas, biofuel and biorefinery technologies
Biofuel and Biorefinery Technologies Vol. 6
Springer, p. 163 - 198
1133. Romero-Lankao, P., Burch, S., Hughes, S., Auty, K., Aylett, A., **Krellenberg, K.**, Nakano, R., Simon, D., Ziervogel, G., Wejs, A. (2018):
Governance and policy
In: Rosenzweig, C., Solecki, W.D., Romero-Lankao, P., Mehrotra, S., Dhakal, S., Ali Ibrahim, S., Hidalgo, A., Paes, E., Nxumalo, J., Clos, J. (eds.)
Climate change and cities : second assessment report of the urban climate change research network
Cambridge University Press, Cambridge, p. 585 - 606
1134. **Schultze, M.**, Jolas, P., Weber, L. (2018):
Filling, remediation and management of pit lakes by using mine water – an update
In: Drebendstedt, C., von Bismarck, F., Fourie, A., Tibbett, M. (eds.)
Mine Closure 2018 : Proceedings of the 12th International Conference on Mine Closure, 3 – 7 September 2018, Leipzig, Germany
TU Bergakademie Freiberg, Freiberg, p. 495 - 502

1135. **Schwarze, R.** (2018):
Die Versicherung von Naturgefahren: Das „Schweizer Modell“ ein Beispiel für Deutschland und Europa?
In: Erlinghagen, M., Hank, K., Kreyenfeld, M. (Hrsg.)
Innovation und Wissenstransfer in der empirischen Sozial- und Verhaltensforschung : Festschrift für Gert G. Wagner
Campus, Frankfurt/M., New York, S. 247 - 266
1136. **Schwarze, R.**, Meyer, P.B., Markandya, A., Kedia, S., Maleki, D., Román de Lara, M.V., Sudo, T., Surminski, S., Anderson, N., Olazabal, M., Grafakos, S., Dobardzic, S. (2018): Economics, finance, and the private sector
In: Rosenzweig, C., Solecki, W.D., Romero-Lankao, P., Mehrotra, S., Dhakal, S., Ali Ibrahim, S., Hidalgo, A., Paes, E., Nxumalo, J., Clos, J. (eds.)
Climate change and cities : second assessment report of the urban climate change research network
Cambridge University Press, Cambridge, p. 225 - 254
1137. **Sheridan, C.**, Akcil, A., **Kappelmeyer, U.**, Moodley, I. (2018):
A review on the use of constructed wetlands for the treatment of acid mine drainage
In: Stefanakis, A.I. (ed.)
Constructed wetlands for industrial wastewater treatment
Wiley, Hoboken, NJ, p. 249 - 262
1138. Siddique, T., **Stasik, S.**, Shahimin, M.F.M., **Wendt-Potthoff, K.** (2018):
Microbial communities in oil sands tailings: Their implications in biogeochemical processes and tailings management
In: McGenity, T.J. (ed.)
Microbial communities utilizing hydrocarbons and lipids: Members, metagenomics and ecophysiology
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham,
1139. **Spangenberg, J.H.** (2018):
World views, interests and indicator choices
In: Bell, S., Morse, S. (eds.)
Routledge handbook of sustainability indicators and indices
Routledge International Handbooks
Routledge, Abingdon, p. 143 - 155

1140. **Spangenberg, J.H.** (2018):
Looking into the future: finding suitable models and scenarios
In: Düwell, M., Bos, G., van Steenbergen, N. (eds.)
Towards the ethics of a green future. The theory and practice of human rights for future people
Routledge Studies in Sustainability
Routledge, Abingdon, p. 48 - 65
1141. Spengler, T., Dietrich, H., **Kreuer, D.**, Gertel, J. (2018):
Appendix I: Methodology
In: Gertel, J., Hexel, R. (eds.)
Coping with uncertainty: Youth in the Middle East and North Africa
Saqi Books, London, p. 321 - 330
1142. Spiegel, H., Sandén, T., Dersch, G., Baumgarten, A., **Gründling, R.**, **Franko, U.** (2018):
Soil organic matter and nutrient dynamics following different management of crop residues at two sites in Austria
In: Muñoz, M.A., Zornoza, R. (eds.)
Soil management and climate change : effects on organic carbon, nitrogen dynamics and greenhouse gas emissions
Academic Press / Elsevier, London, p. 253 - 265
1143. Stinner, P.W., Deuker, A., Schmalfuß, T., Brock, C., Rensberg, N., Denysenko, V., Trainer, P., Möller, K., Zang, J., Janke, L., Leandro, W.M., Oehmichen, K., **Popp, D.**, Daniel-Gromke, J. (2018):
Perennial and intercrop legumes as energy crops for biogas production
In: Meena, R.S., Das, A., Yadav, G.S., Lal, R. (eds.)
Legumes for soil health and sustainable management
Springer Singapore, Singapore, p. 139 - 171
1144. Sun, Y., **Nixdorf, E.**, Su, J., Wang, Q., Wang, T., **Kolditz, O.**, Xi, B. (2018):
Groundwater risk sources identification and risk reduction management in the Song-Liao-River-Basin. 5.3. Groundwater source pollution prevention and risk reduction strategy in SLRB
In: Song, Y., Xi, B., Zhang, Y., Lei, K., Williams, R., Zhang, M., Kong, W., Kolditz, O. (eds.)
Chinese water systems. Volume 1: Liaohe and Songhuajiang River Basins
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 444 - 453

1145. Sun, Y., **Nixdorf, E.**, Su, J., Wang, Q., Wang, T., **Kolditz, O.**, Xi, B. (2018): Groundwater risk sources identification and risk reduction management in the Song-Liao-River-Basin. 5.1. Groundwater source risk assessment guideline in SLRB In: Song, Y., Xi, B., Zhang, Y., Lei, K., Williams, R., Zhang, M., Kong, W., Kolditz, O. (eds.) *Chinese water systems. Volume 1: Liaohe and Songhuajiang River Basins* Terrestrial Environmental Sciences Springer Nature, Cham, p. 403 - 421
1146. **Thullner, M.**, Stefanakis, A.I., Dehestani, S. (2018): Constructed wetlands treating water contaminated with organic hydrocarbons In: Stefanakis, A.I. (ed.) *Constructed wetlands for industrial wastewater treatment* Wiley, Hoboken, NJ, p. 43 - 63
1147. Van Stan II, J.T., Underwood, S.J., **Friesen, J.** (2018): Urban forestry: An underutilized tool in water management In: Friesen, J., Rodríguez-Sinobas, L. (eds.) *Advanced tools for integrated water resources management* Advances in Chemical Pollution, Environmental Management and Protection 3 Elsevier, p. 35 - 61
1148. Vogel, P., Maßmann, J., **Miao, X.-Y.**, Nagel, T. (2018): TM processes In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.) *Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring* Terrestrial Environmental Sciences Springer Nature, Cham, p. 187 - 217
1149. Vogel, P., Maßmann, J., **Zheng, T.**, **Miao, X.-Y.**, Naumov, D., Nagel, T. (2018): THM processes In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.) *Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring* Terrestrial Environmental Sciences Springer Nature, Cham, p. 219 - 251

1150. **Welz, J., Hertel, D., Krellenberg, K., Schlink, U.** (2018):
Adapting built-up areas to climate change : assessment of effects and feasibility of adaptation measures on heat hazard
In: Kabisch, S., Koch, F., Gawel, E., Haase, A., Knapp, S., Krellenberg, K., Nivala, J., Zehnsdorf, A. (eds.)
Urban transformations - Sustainable urban development through resource efficiency, quality of life and resilience
Future City 10
Springer International Publishing, Cham, p. 327 - 338
1151. **Wick, L.Y., Harms, H.** (2018):
The mycosphere as a hotspot for the biotransformation of contaminants in soil
In: Krell, T. (ed.)
Cellular ecophysiology of microbe: Hydrocarbon and lipid interactions
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham, p. 315 - 324
1152. **Wick, L.Y., Harms, H., Smith, K.E.C.** (2018):
Microorganism-hydrophobic compound interactions
In: Krell, T. (ed.)
Cellular ecophysiology of microbe: Hydrocarbon and lipid interactions
Handbook of Hydrocarbon and Lipid Microbiology
Springer International Publishing, Cham, p. 17 - 31
1153. **Worrich, A., Wick, L.Y., Banitz, T.** (2018):
Ecology of contaminant biotransformation in the mycosphere: Role of transport processes
In: Gadd, G.M., Sariaslani, S. (eds.)
Advances in Applied Microbiology 104
Elsevier, Oxford, p. 93 - 133
1154. Zieffle, G., Maßmann, J., Watanabe, N., **Naumov, D.**, Kunz, H., **Nagel, T.** (2018):
HM processes
In: Kolditz, O., Nagel, T., Shao, H., Wang, W., Bauer, S. (eds.)
Thermo-hydro-mechanical-chemical processes in fractured porous media: Modelling and benchmarking. From benchmarking to tutoring
Terrestrial Environmental Sciences
Springer Nature, Cham, p. 179 - 185
1155. **Zink, M., Samaniego, L., Kumar, R., Thober, S., Mai, J., Schäfer, D., Marx, A.** (2018):
A national scale planning tool for agricultural droughts in Germany
In: Friesen, J., Rodríguez-Sinobas, L. (eds.)
Advanced tools for integrated water resources management
Advances in Chemical Pollution, Environmental Management and Protection 3
Elsevier, p. 147 - 169

Berichte

1156. **Avlyush, S., Pfeiffer, M., Karthe, D., Borchardt, D.** (2018):
Integrated water resources management - model region Mongolia. Project profile: MoMo
phase III
Helmholtz Centre for Environmental Research - UFZ, Leipzig, 31 pp.
1157. **Berger, U., Ost, N., Sättler, D., Schliebner, I., Kühne, R., Schüürmann, G., Neumann, M., Reemtsma, T.** (2018):
Assessment of persistence, mobility and toxicity (PMT) of 167 REACH registered substances. 2. revised edition
Texte Umweltbundesamt 9/2018
Umweltbundesamt, Dessau-Roßlau, 60 pp.
1158. Cedervall Lauta, K., Albris, K., Zuccaro, G., Leone, M.F., Martucci, C., Grandjean, G., Baills, A., Schueler, L., Thielen, A., Hemmers, J., Thiebes, B., **Schwarze, R.**, Pickl, S., Booth, L., Scolobig, A., Fleming, K., Amaralunga, D., Dias, N., Clegg, G., Haigh, R. (2018):
ESPRESSO Recommandations pour l'amélioration des capacités de gestion des risques
ESPRESSO – Enhancing Synergies for Disaster Prevention in the European Union, 71 pp.
1159. Cedervall Lauta, K., Albris, K., Zuccaro, G., Leone, M.F., Martucci, C., Grandjean, G., Baills, A., Schueler, L., Thielen, A., Hemmers, J., Thiebes, B., **Schwarze, R.**, Pickl, S., Booth, L., Scolobig, A., Fleming, K., Amaralunga, D., Dias, N., Clegg, G., Haigh, R. (2018):
ESPRESSO Enhancing Risk Management Capabilities Guidelines
ESPRESSO – Enhancing Synergies for Disaster Prevention in the European Union, 67 pp.
1160. Globevnik, L., Snoj, L., Šubelj, G., Kurnik, B. (2018):
Outlook on water and climate change vulnerability in the Western Balkans
In: **Künitzer, A.** (ed.)
ETC/ICM Technical Report 1/2018
European Topic Centre on Inland, Coastal and Marine Waters; Helmholtz Centre for Environmental Research GmbH – UFZ, Magdeburg, 86 pp.
1161. **Hansjürgens, B., Schröter-Schlaack, C., Berghöfer, A., Wittmer, H., Moesenfechtel, U.** (2018):
The value of nature for economy and society : a synthesis of Natural Capital Germany - TEEB DE
Helmholtz Centre for Environmental Research - UFZ, Leipzig, 130 pp.
1162. **Hansjürgens, B., Schröter-Schlaack, C., Berghöfer, A., Wittmer, H., Moesenfechtel, U.** (2018):
Naturkapital Deutschland – TEEB DE : Werte der Natur aufzeigen und in Entscheidungen integrieren – eine Synthese
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 134 S.

1163. **Klauer, B., Sigel, K., Reese, M., Schiller, J., Renno, J.** (2018):
Unverhältnismäßige Kosten nach EG-Wasserrahmenrichtlinie. Praxistest zweier Verfahren zur Begründung wenigerstrenger Umweltziele. Aktualisierte Fassung des Endberichts des F+E-Vorhabens aus dem Länderfinanzierungsprogramm 2016. O 8.16 im Auftrag der Bund/Länderarbeitsgemeinschaft Wasser
UFZ-Bericht 3/2018
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, VII, 78 S.
1164. Knoblauch, S., Schrödter, M., Tauchnitz, N., Grunert, M., Koch, M., Bull, I., Schulz, C., Ramp, C., Haferkorn, U., Rust, M., Diepolder, M., Heigl, L., **Meißner, R.** (2018):
Langjährige Untersuchungen zur P-, K-, Mg- und S- Auswaschung aus landwirtschaftlich genutzten Böden in Deutschland – Kooperation Lysimeter
Schriftenreihe / Thüringer Landesanstalt für Landwirtschaft Beiheft 1
Thüringer Landesanstalt für Landwirtschaft, Jena, 257 S.
1165. **Lauf, T., Ek, K., Gawel, E., Lehmann, P., Söderholm, P.** (2018):
The regional heterogeneity of wind power deployment: an empirical investigation of land-use policies in Germany and Sweden
UFZ-Diskussionspapiere 1/2018
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 29 pp.
1166. **Lehmann, P., Gawel, E.** (2018):
Gegen eine voreilige Regionalisierung von Ausschreibungen für Windenergie : Standpunkt. Energie & Klima Backround
Der Tagesspiegel 4.11.2018
Der Tagesspiegel GmbH , Berlin, 3 S.
1167. **Lienhoop, N., Schröter-Schlaack, C.** (2018):
Ökosystemleistungen und deren Inwertsetzung in urbanen Räumen
BfN-Skripten 506
Bundesamt für Naturschutz (BfN), Bonn, 59 S.
1168. **Mendoza, M.T., Schwarze, R.** (2018):
Sequential disaster forensics: an application to floods in the city of Grimma
UFZ-Diskussionspapiere 3/2018
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 46 pp.

1169. Podschun, S.A., Albert, C., Costea, G., Damm, C., Dehnhardt, A., **Fischer, C.**, Fischer, H., Foeckler, F., Gelhaus, M., Gerstner, L., Hartje, V., Hoffmann, T.G., Hornung, L., Iwanowski, J., **Kasperidus, H.D.**, Linnemann, K., Mehl, D., Rayanov, M., Ritz, S., Rumm, A., Sander, A., Schmidt, M., **Scholz, M.**, **Schulz-Zunkel, C.**, Stammel, B., Thiele, J., Venohr, M., von Haaren, C., Wildner, M., Pusch, M. (2018): RESI - Anwendungshandbuch: Ökosystemleistungen von Flüssen und Auen erfassen und bewerten
Berichte des IGB 31/2018
Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB), Berlin, 187 S.
1170. **Renno, J., Klauer, B.** (2018):
EG-Wasserrahmenrichtlinie: eine vertiefte Analyse der beiden Leipziger Ansätze zur Begründung von Ausnahmen mit der Unverhältnismäßigkeit der Kosten
UFZ-Bericht 4/2018
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, VI, 79,IV S.
1171. **Richter, A.**, Singer-Brodowski, M., **Hecker, S.**, Trénel, M., Letz, B., **Bonn, A.** (2018):
Positionspapier: Handlungsbedarfe und Maßnahmen für die Förderung von Citizen Science in der Umweltbildung und Umweltkommunikation
UFZ-Diskussionspapiere 2/2018
Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 24 S.
1172. Scheftelowitz, M., **Thrän, D.**, Liebetrau, J., Lenz, V., Lauer, M., Dotzauer, M., Daniel-Gromke, J., Witt, J., Nelles, M. (2018):
Stellungnahme zum EEG 2017
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, 12 S.
1173. Whalley, C., Mohaupt, V., **Busch, W.**, van den Roovaart, J., van Duijnhoven, N., Kirst, I., Schmedtje, U., **Altenburger, R.**, Sommer, L. (2018):
Chemicals in European waters : knowledge developments
EEA Report 18/2018
Office for Official Publications of the European Communities, Luxembourg, 76 pp.
1174. White, O., Sadauskis, R., Sheate, W., Papadopoulou, L. (2018):
Water use in the Western Balkans: regional outlooks and global megatrends
In: **Künitzer, A.** (ed.)
ETC/ICM Technical Report 2/2018
European Topic Centre on Inland, Coastal and Marine Waters; Helmholtz Centre for Environmental Research GmbH – UFZ, Magdeburg, 131 pp.

1175. Zuccaro, G., Leone, M.F., Martucci, C., Grandjean, G., Baills, A., Schueller, L., Thielen, A., Hemmers, J., Thiebes, B., **Schwarze, R.**, Pickl, S., Booth, L., Scolobig, A., Fleming, K., Amaratunga, D., Dias, N., Clegg, G., Haigh, R., Cedervall Lauta, K., Albris, K. (2018):
ESPRESSO Leitlinien zur Verbesserung der Risikomanagementkapazitäten
ESPRESSO – Enhancing Synergies for Disaster Prevention in the European Union, 70 S.
1176. Zuccaro, G., Leone, M.F., Martucci, C., Grandjean, G., Baills, A., Schueller, L., Thielen, A., Thiebes, B., **Schwarze, R.**, Pickl, S., Booth, L., Scolobig, A., Fleming, K., Clegg, G. (2018):
ESPRESSO Document d'Orientation ESPRESSO sur les futures stratégies de recherche suiteau Cadre d'action de Sendai pour la réductiondes risques de catastrophes 2015-2030
ESPRESSO – Enhancing Synergies for Disaster Prevention in the European Union, 55 pp.
1177. Zuccaro, G., Leone, M.F., Martucci, C., Grandjean, G., Cedervall Lauta, K., Baills, A., Schueller, L., Thielen, A., Thiebes, B., **Schwarze, R.**, Pickl, S., Booth, L., Scolobig, A., Fleming, K., Clegg, G. (2018):
Visionspapier des ESPRESSO-Konsortiums für zukünftige Forschungsstrategien auf Grundlage des Sendai-Rahmenwerks für Katastrophenvorsorge 2015–2030
ESPRESSO – Enhancing Synergies for Disaster Prevention in the European Union, 55 S.
1178. Zuccaro, G., Leone, M.F., Martucci, C., Grandjean, G., Cedervall Lauta, K., Baills, A., Schueller, L., Thielen, A., Thiebes, B., **Schwarze, R.**, Pickl, S., Booth, L., Scolobig, A., Fleming, K., Clegg, G. (2018):
ESPRESSO Vision Paper on future research strategies following the Sendai Frameworkfor DRR 2015-2030
ESPRESSO – Enhancing Synergies for Disaster Prevention in the European Union, 51 pp.

Berichtartikel

1179. Dotzauer, M., **Pfeiffer, D., Thrän, D.**, Lenz, V., Pohl, M., Müller-Langer, F. (2018):
4 Technologiebereich 1: Erneuerbare Energien 4.1 1.1 Bioenergie
In: Viebahn, P., Zelt, O., Fischedick, M., Hildebrand, J., Heib, S., Becker, D., Horst, J.,
Wietschel, M., Hirzel, S. (Hrsg.)
*Technologien für die Energiewende : Politikbericht an das Bundesministerium für
Wirtschaft und Energie (BMWi) ; Teilprojekt A im Rahmen des strategischen
BMWi-Leitprojekts „Trends und Perspektiven der Energieforschung“*
Wuppertal Report 14
Wuppertal Institut für Klima, Umwelt, Energie GmbH, Wuppertal, S. 27 - 30
1180. Dotzauer, M., **Pfeiffer, D., Thrän, D.**, Lenz, V., Pohl, M., Müller-Langer, F. (2018):
Technologiebericht 1.1 Bioenergie innerhalb des Forschungsprojektes TF_Energiewende.
1 Beschreibung des Technologiefeldes Bioenergie
In: Viebahn, P., Zelt, O., Fischedick, M., Wietschel, M., Hirzel, S., Horst, J. (Hrsg.)
*Technologien für die Energiewende Technologiebericht Bd. 1 ; Teilbericht 2 zum
Teilprojekt A im Rahmen des strategischen BMWi-Leitprojekts „Trends und Perspektiven
der Energieforschung“*
Wuppertal Report 13.1
Wuppertal Institut für Klima, Umwelt, Energie GmbH, Wuppertal, S. 11 - 83
1181. Dotzauer, M., Szarka, N., Haufe, H., Krautkremer, B., Wern, B., Dahmen, N., **Millinger,
M.** (2018):
Innovationsbedarfe für Bioenergieranwendungen
In: Baur, F., Fischedick, M. (Hrsg.)
*Forschung für die Energiewende : die Gestaltung des Energiesystems ; Jahrestagung
2017 des ForschungsVerbunds Erneuerbare Energien, 8. und 9. November 2017,
Umweltforum Berlin ; [Innovationen für die Energiewende, Beiträge zur
FVEE-Jahrestagung 2017]*
Themen / ForschungsVerbund Erneuerbare Energien 2017
ForschungsVerbund Erneuerbare Energien (FVEE), Berlin, S. 58 - 60
1182. **Gawel, E., Eichhorn, M., O'Keeffe, S.**, Dotzauer, M., Lenz, V., Schmiedt, J.E.,
Stryi-Hipp, G. (2018):
Raumwirkungen innovativer Konzepte und Technologien
In: Baur, F., Fischedick, M. (Hrsg.)
*Forschung für die Energiewende : die Gestaltung des Energiesystems ; Jahrestagung
2017 des ForschungsVerbunds Erneuerbare Energien, 8. und 9. November 2017,
Umweltforum Berlin ; [Innovationen für die Energiewende, Beiträge zur
FVEE-Jahrestagung 2017]*
Themen / ForschungsVerbund Erneuerbare Energien 2017
ForschungsVerbund Erneuerbare Energien (FVEE), Berlin, S. 23 - 27

1183. **Hansjürgens, B.** (2018):
Bewertung und Inwertsetzung von Ökosystemleistungen: Herausforderungen in urbanen Räumen
In: Lienhoop, N., Schröter-Schlaack, C. (Hrsg.)
Ökosystemleistungen und deren Inwertsetzung in urbanen Räumen
BfN-Skripten 506
Bundesamt für Naturschutz (BfN), Bonn, S. 8 - 15
1184. **Kabisch, S., Kindler, A., Zerjeski, H., Söding, M.** (2018):
Leipzigs kleinere Großwohnsiedlungen - Merkmale und Potenziale
Statistischer Quartalsbericht/ Stadt Leipzig 3/2018
Stadt Leipzig, Amt für Statistik und Wahlen, Leipzig, S. 23 - 31
1185. **Kabisch, S.** (2018):
Umsiedlung - die soziale Dimension von Siedlungsauflösungen im Fokus
In: Maretzke, S. (Hrsg.)
Mal über Tabuthemen reden. Sicherung gleichwertiger Lebensbedingungen, Mindeststandards, Wüstungen ... – worüber nur hinter vorgehaltener Hand diskutiert wird. Dezembertagung des DGD-Arbeitskreises „Städte und Regionen“ in Kooperation mit dem BBSR Bonn am 1. und 2. Dezember 2016 in Berlin
BBSR-Online-Publikation 2
Bundesinstitut für Bau-, Stadt- und Raumforschung (BBSR), Bonn, S. 88 - 95
1186. Keller, S., **Becker, R.**, Rettenmeier, A. (2018):
Entwicklungen der Windenergie – wo stehen wir?
In: Baur, F., Fischedick, M. (Hrsg.)
Forschung für die Energiewende : die Gestaltung des Energiesystems ; Jahrestagung 2017 des ForschungsVerbunds Erneuerbare Energien, 8. und 9. November 2017, Umweltforum Berlin ; [Innovationen für die Energiewende, Beiträge zur FVEE-Jahrestagung 2017]
Themen / ForschungsVerbund Erneuerbare Energien 2017
ForschungsVerbund Erneuerbare Energien (FVEE), Berlin, S. 61 - 66
1187. **Köck, W., Bovet, J., Auer, J.-M., Holst, E.C.** (2018):
Renewable energy projects and species law – a legal comparative research. Member state report: Germany
In: Backes, C.W., Akerboom, S. (eds.)
Renewable energy projects and species protection : a comparison into the application of the EU species protection regulation with respect to renewable energy projects in the Netherlands, United Kingdom, Belgium, Denmark and Germany
Utrecht Centre for Water, Oceans and Sustainability Law, Utrecht, p. 240 - 262

1188. **Lienhoop, N., Schröter-Schlaack, C.**, Ferber, U., **Hansjürgens, B.**, Stöcker, U., Sunken, S. (2018):
Handlungsempfehlungen
In: Lienhoop, N., Schröter-Schlaack, C. (Hrsg.)
Ökosystemleistungen und deren Inwertsetzung in urbanen Räumen
BfN-Skripten 506
Bundesamt für Naturschutz (BfN), Bonn, S. 51 - 56
1189. Martín-López, B., Church, A., Başak Dessane, E., Berry, P., Chenu, C., Christie, M., Gerino, M., Keune, H., Osipova, E., Oteros-Rozas, E., Paillard, S., Rossberg, A.G., **Schröter, M.**, Van Oudenhoven, A.P.E. (2018):
Chapter 2: Nature's contributions to people and quality of life
In: Rounsevell, M., Fischer, M., Torre-Marin Rando, A., Mader, A. (eds.)
The IPBES regional assessment report on biodiversity and ecosystem services for Europe and Central Asia
Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) , Bonn, p. 57 - 185
1190. Pfeiffer, D., Szarka, N., **Thrän, D.** (2018):
Perspectives for the application of biogenic residues and organic wastes for energy use
Venice 2018 - 7th International Symposium on Energy from Biomass and Waste
CISA Publisher, Padova, p. 1 - 2
1191. **Schrön, M.** (2018):
Von Fluten, Dürren und der Hilfe aus dem All
KlarText : Preis für Wissenschaftskommunikation : die Beiträge der Preisträger 2018
Klaus Tschira Stiftung gGmbH, Heidelberg, S. 30 - 33
1192. **Schröter-Schlaack, C., Lienhoop, N.**, Ferber, U., **Hansjürgens, B.**, Stöcker, U., Sunken, S. (2018):
Ökosystemleistungen und ihre Inwertsetzung in urbanen Räumen: Einführung, Methoden und Aufbau des Skripts
In: Lienhoop, N., Schröter-Schlaack, C. (Hrsg.)
Ökosystemleistungen und deren Inwertsetzung in urbanen Räumen
BfN-Skripten 506
Bundesamt für Naturschutz (BfN), Bonn, S. 4 - 7
1193. **Schröter-Schlaack, C., Lienhoop, N.**, Ferber, U., **Hansjürgens, B.**, Stöcker, U., Sunken, S. (2018):
Ausblick
In: Lienhoop, N., Schröter-Schlaack, C. (Hrsg.)
Ökosystemleistungen und deren Inwertsetzung in urbanen Räumen
BfN-Skripten 506
Bundesamt für Naturschutz (BfN), Bonn, S. 57

1194. Schwarz, S., Zuberbühler, U., Schmidt, M., Kretzschmar, J., Friedrich, A., Schröer, B., Hebling, C., Calnan, S., Peters, R., Dittmeyer, R., **Harnisch, F.**, **Nagel, T.** (2018):
Power-to-X: Technologien für Übermorgen?!
In: Baur, F., Fischedick, M. (Hrsg.)
Forschung für die Energiewende : die Gestaltung des Energiesystems ; Jahrestagung 2017 des ForschungsVerbunds Erneuerbare Energien, 8. und 9. November 2017, Umweltforum Berlin ; [Innovationen für die Energiewende, Beiträge zur FVEE-Jahrestagung 2017]
Themen / ForschungsVerbund Erneuerbare Energien 2017
ForschungsVerbund Erneuerbare Energien (FVEE), Berlin, S. 49 - 52
1195. **Spangenberg, J.H.** (2018):
Sufficiency: a pragmatic, radical visionary approach
In: Rijnhout, L., Mastini, R. (eds.)
Sufficiency: moving beyond the gospel of eco-efficiency. Full report.
Friends of the Earth Europe (FoEE), Brussels, p. 5 - 8
1196. Tello, M., Cazcarra-Bes, V., **Fischer, R.**, Papathanassiou, K. (2018):
Multiscale forest structure estimation from SAR tomography
Electronic Proceedings EUSAR 2018; 12th European Conference on Synthetic Aperture Radar, 04-07 June, 2018, Aachen, Germany
VDE-Verlag, Berlin ; Offenbach, p. 600 - 603
1197. **Worrich, A.** (2018):
Eine starke Allianz
KlarText : Preis für Wissenschaftskommunikation : die Beiträge der Preisträger 2018
Klaus Tschira Stiftung gGmbH, Heidelberg, S. 22 - 25

Berichtherausgaben

1198. Bucher, A., **Görke, U.-J.**, Vienken, T., Kolditz, O., Dietrich, P. (Hrsg., 2018): Entwicklung von Methoden zur standortoptimierten geotechnischen Auslegung großflächiger Geothermiesysteme : Schlussbericht ; Förderkennzeichen: 13FH059PX3 *UFZ-Bericht 1/2018* Helmholtz-Zentrum für Umweltforschung - UFZ, Leipzig, 110 S.
1199. Lenz, V., **Thrän, D.**, Pfeiffer, D. (eds., 2018): Methods for measuring emissions of particulate matter from solid biomass combustion *Series of the funding programme "Biomass energy use" 8* DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, 162 pp.
1200. **Marselle, M.**, Stadler, J., Korn, H., **Bonn, A.** (eds., 2018): Proceedings of the European conference “Biodiversity and Health in the Face of Climate Change – Challenges, Opportunities and Evidence Gaps”, Bonn, Germany, 27 - 29 June 2017 *BfN-Skripten 509* Bundesamt für Naturschutz (BfN), Bonn, 177 pp.

Tagungsbeiträge

1201. Brosowski, A., Mantau, U., Mahro, B., Noke, A., Richter, F., Krause, T., Bischof, R., Hering, T., Blanke, C., Szarka, N., Bill, R., **Thrän, D.** (2018): Nachhaltige Rohstoffbasis für die stoffliche und energetische Nutzung
DBFZ-Jahrestagung 2018: Energie & Stoffe aus Biomasse: Konkurrenten oder Partner?
19./20. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 40 - 52
1202. **Egli, L., Grimm, V., Seppelt, R.** (2018): Exploring the resilience of telecoupled social-ecological systems with agent-based models
5th European Congress of Conservation Biology, Jyväskylä, 12-15 June 2018
1203. **Henle, K.** (2018): A global database of anomalies in natural populations, with an illustration of emerging patterns focussing on countries of the former Soviet Union
In: Vershinin, V.L., Vershinina, S.D. (eds.)
Second International conference “Amphibian and reptiles anomalies and pathology: methodology, evolutionary significance, monitoring and environmental health”, Ekaterinburg, 6–10 September 2016
KnE Life Sciences 2018
Knowledge E, Dubai, p. 55 - 64
1204. **Hildebrandt, J.** (2018): Erwartete Nachfrage nach stofflicher Nutzung von Biomasse
DBFZ-Jahrestagung 2018: Energie & Stoffe aus Biomasse: Konkurrenten oder Partner?
19./20. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 54 - 63
1205. **Jordan, M.** (2018): The future role of bioenergy in the German heat sector in competition with other renewable technologies
1. Deutsches Doktorandenkolloquium Bioenergie: 20./21. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, p. 294 - 295
1206. Kar, I., **O'Keeffe, S., Thrän, D., Franko, U.** (2018): Including soil impacts within a regional life cycle assessment of biobased products
1. Deutsches Doktorandenkolloquium Bioenergie: 20./21. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, p. 300 - 301

1207. Kirchner, D., **Thrän, D.** (2018):
Entwicklung und Diskussion von Planungs- und Auslegungsmethoden für Biogashybrid-Inselsysteme unter Berücksichtigung der flexiblen bedarfsorientierten Biogaserzeugung
1. Deutsches Doktorandenkolloquium Bioenergie: 20./21. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 246 - 247
1208. Kirstein, N., Hennig, C., **Thrän, D.** (2018):
Zukünftige Nutzung biogener Festbrennstoffe vor dem Hintergrund des Zwei-Grad-Ziels
1. Deutsches Doktorandenkolloquium Bioenergie: 20./21. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 292 - 293
1209. Lauer, M., **Thrän, D.** (2018):
Gesamtwirtschaftliche Bewertung von Biogasanlagen als Flexibilitätsoption im Stromsystem der Zukunft
1. Deutsches Doktorandenkolloquium Bioenergie: 20./21. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 214 - 222
1210. Mackens, S., Yousfi, H., **Werban, U.**, **Ködel, U.**, Fechner, T. (2018):
Paired crosshole S-wave measurements to access soil stress history
Near Surface Geoscience Conference & Exhibition 2018 : 24th European Meeting of Environmental and Engineering Geophysics, 9-12 September 2018, Porto, Portugal
European Association of Geoscientists and Engineers (EAGE), Houten, p. We 24B 08
1211. **Musonda, F.** (2018):
How can the available biomass resources be optimally allocated to the German bioeconomy?
1. Deutsches Doktorandenkolloquium Bioenergie: 20./21. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, p. 296 - 297
1212. Nelles, M., Hartmann, I., Lenz, V., Liebetrau, J., Müller-Langer, F., **Thrän, D.** (2018):
Energetische und stoffliche Verwertung von biogenen Abfällen und Reststoffen
HTP-Fachforum 2018: Hydrothermale Prozesse zur stofflichen und energetischen Wertschöpfung. 19./20. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 224 - 244

1213. **Reißmann, D., Bezama, A., Thrän, D.** (2018):
Wohin die Reise gehen könnte... Potentielle Entwicklungspfade der Hydrothermalen Verwertung wässriger biogener Rest- und Abfallstoffe in Deutschland bis 2030
HTP-Fachforum 2018: Hydrothermale Prozesse zur stofflichen und energetischen Wertschöpfung. 19./20. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 194 - 203
1214. **Reißmann, D., Bezama, A., Thrän, D.** (2018):
Künftige Entwicklungspfade für Hydrothermale Prozesse in Deutschland bis 2030
1. Deutsches Doktorandenkolloquium Bioenergie: 20./21. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 270 - 271
1215. **Sauer, U., Karl, L., Fechner, T.** (2018):
How can the interpretation of tube waves help to improve the geotechnical site characterization?
78. Jahrestagung der Deutschen Geophysikalischen Gesellschaft, 12.-15.Februar 2018, Leoben/ Österreich
p. 38
1216. **Schmidt, F., Wagner, N., Mai, J., Lünenschloß, P., Töpfer, H., Bumberger, J.** (2018):
Dielectric spectra reconstruction of layered multi-phase soil
In: Skierucha, W. (ed.)
Proceedings; 2018 12th International Conference on Electromagnetic Wave Interaction with Water and Moist Substances (ISEMA), Lublin, Poland, 4-7 June 2018
Institute of Electrical and Electronics Engineers (IEEE), New York, NY, p. 106 - 109
1217. **Sträuber, H.** (2018):
Mittelkettige Fettsäuren als Teilstrom des Biogasprozesses
DBFZ-Jahrestagung 2018: Energie & Stoffe aus Biomasse: Konkurrenten oder Partner? 19./20. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 156
1218. **Thrän, D., Billig, E., Braune, M., Hahn, A., Hennig, C., Klemm, M., Lenz, V., Szarka, N.** (2018):
Bioenergy in a CO₂ economy
DBFZ-Jahrestagung 2018: Energie & Stoffe aus Biomasse: Konkurrenten oder Partner? 19./20. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 372 - 378

1219. **Thrän, D.**, Billig, E., Braune, M., Hahn, A., Hennig, C., Klemm, M., Lenz, V., Szarka, N. (2018):
Bioenergy in a CO₂ economy
HTP-Fachforum 2018: Hydrothermale Prozesse zur stofflichen und energetischen Wertschöpfung. 19./20. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 246 - 252
1220. **Thrän, D.**, **Billig, E.**, Braune, M., Hahn, A., Hennig, C., Klemm, M., Lenz, V., Szarka, N. (2018):
Bioenergy in a CO₂ economy
1. Deutsches Doktorandenkolloquium Bioenergie: 20./21. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 34 - 40
1221. **Thrän, D.**, Lenz, V., Liebetrau, J., Majer, S., Müller-Langer, F., Braune, M., Oehmichen, K., Pfeiffer, D. (2018):
Is there enough for everything and everyone? Bioenergy between different expectations
HTP-Fachforum 2018: Hydrothermale Prozesse zur stofflichen und energetischen Wertschöpfung. 19./20. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 10 - 19
1222. **Thrän, D.**, Lenz, V., Liebetrau, J., Majer, S., Müller-Langer, F., Braune, M., Oehmichen, K., Pfeiffer, D. (2018):
Is there enough for everything and everyone? Bioenergy between different expectations
DBFZ-Jahrestagung 2018: Energie & Stoffe aus Biomasse: Konkurrenten oder Partner? 19./20. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, S. 10 - 19
1223. **Zeug, W.** (2018):
A holistic life cycle sustainability assessment approach for the bioeconomy
1. Deutsches Doktorandenkolloquium Bioenergie: 20./21. September 2018
DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, p. 304 - 305

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1224. **Becker, R.** (2018):
High-resolution wind power generation time series for Germany in the period 2000-2015
(Version 1.0) [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.1156956>
1225. **Büttner, O., Rahn, K., Urrutia, R., Valdovinos, C.** (2018):
Bathymetry of Lake Laja (Laguna del Laja, Chile) - processed survey data of 2001.
[PANGAEA, <https://doi.pangaea.de/10.1594/PANGAEA.890102>]
1226. **Kaus, A., Büttner, O., Karthe, D., Schäffer, M., Borchardt, D.** (2018):
Passive acoustic telemetry data for lenok (*Brachymystax lenok* Pallas 1773) in the Eroo River and some tributaries (Selenga River basin, Mongolia, 2011-2012). [PANGAEA, <https://doi.pangaea.de/10.1594/PANGAEA.890063>, Supplement to: Kaus, A et al. (in press): Migration and movement profiles of a potadromous fish (*Brachymystax lenok* Pallas 1773) in a highly connected river system (Mongolia). *Ecology of Freshwater Fish*, <https://doi.org/10.1111/eff.12390>]
1227. **Kaus, A., Büttner, O., Schäffer, M., Balbar, G., Surenkhoro, P., Borchardt, D.** (2018):
Passive acoustic telemetry data for Siberian taimen (*Hucho taimen* Pallas 1773) in the Onon River and Balj tributary (Amur River basin, Mongolia, 2013-2014).
PANGAEA, <https://doi.pangaea.de/10.1594/PANGAEA.890033>, Supplement to: Kaus, A et al. (2016): Seasonal home range shifts of the Siberian taimen (*Hucho taimen* Pallas 1773): Evidence from passive acoustic telemetry in the Onon River and Balj tributary (Amur River basin, Mongolia). *International Review of Hydrobiology*, 101(5-6), 147-159, <https://doi.org/10.1002/iroh.201601852>]

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