

# Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung GmbH – UFZ

Forschen für die Umwelt

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## **Vorbemerkung**

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2017 erschienenen Publikationen, die von Mitarbeitern der Helmholtz-Zentrum für Umweltforschung GmbH - UFZ verfasst, mitverfasst oder herausgegeben wurden.

Redaktionsschluss für diese Publikationsliste war der 9. Februar 2018.

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.K.U., Duarte, M., Pathmanathan, J., Miltner, A., Brüls, T., Kästner, M. (2017): Microbial communities in pyrene amended soil–compost mixture and fertilized soil  
*AMB Express* **7**, art. 7
2. Aguirre-Gutiérrez, J., WallisDeVries, M.F., Marshall, L., van't Zelfde, M., Villalobos-Arámbula, A.R., Boekelo, B., Bartholomeus, H., Franzén, M., Biesmeijer, J.C. (2017): Butterflies show different functional and species diversity in relationship to vegetation structure and land use  
*Glob. Ecol. Biogeogr.* **26** (10), 1126 - 1137
3. Akbari, E., Alavipanah, S.K., Jeihouni, M., Hajeb, M., Haase, D., Alavipanah, S. (2017): A review of ocean/sea subsurface water temperature studies from remote sensing and non-remote sensing methods  
*Water* **9** (12), art. 936
4. Al Arab, M., Bernt, M., Höner zu Siederdissen, C., Tout, K., Stadler, P.F. (2017): Partially local three-way alignments and the sequence signatures of mitochondrial genome rearrangements  
*Algorithms Mol. Biol.* **12**, art. 22
5. Alavipanah, S., Haase, D., Lakes, T., Qureshi, S. (2017): Integrating the third dimension into the concept of urban ecosystem services: A review  
*Ecol. Indic.* **72**, 374 - 398
6. Albert, C., Neßhöver, C., Schröter, M., Wittmer, H., Bonn, A., Burkhard, B., Dauber, J., Döring, R., Füst, C., Grunewald, K., Haase, D., Hansjürgens, B., Hauck, J., Hinzmann, M., Koellner, T., Plieninger, T., Rabe, S.-E., Ring, I., Spangenberg, J.H., Stachow, U., Wüstemann, H., Görg, C. (2017): Towards a *National Ecosystem Assessment* in Germany: a plea for a comprehensive approach  
*GAIA* **26** (1), 27 - 33
7. Albert, C., Schröter, B., von Haaren, C. (2017): Ökosystemleistungen von Flusslandschaften: nützliche Informationen für Entscheidungen  
*Wasser und Abfall* **19** (5), 24 - 29
8. Albert, C., Schröter-Schlaack, C., Hansjürgens, B., Dehnhardt, A., Döring, R., Job, H., Köppel, J., Krätzig, S., Matzdorf, B., Reutter, M., Schaltegger, S., Scholz, M., Siegmund-Schultze, M., Wiggering, H., Woltering, M., von Haaren, C. (2017): An economic perspective on land use decisions in agricultural landscapes: Insights from the TEEB Germany Study  
*Ecosystem Services* **25**, 69 - 78

9. Albert, C., **Spangenberg, J.H.**, Schröter, B. (2017):  
Nature-based solutions: criteria  
*Nature* **543** (7645), 315
10. **Albert, C.**, von Haaren, C., Othengrafen, F., Krätzig, S., Saathoff, W. (2017):  
Scaling policy conflicts in ecosystem services governance: a framework for spatial analysis  
*J. Environ. Pol. Plan.* **19** (5), 574 - 592
11. Alexandrescu, F., Klusáček, P., **Bartke, S.**, Osman, R., Frantál, B., Martinát, S., Kunc, J., Pizzol, L., Zabeo, A., Giubilato, E., Critto, A., **Bleicher, A.** (2017):  
Actor networks and the construction of applicable knowledge: the case of the Timbre Brownfield Prioritization Tool  
*Clean Technol. Environ. Policy* **19** (5), 1323 - 1334
12. Altwasser, V., Pätz, R.R., Lemke, T., **Paufler, S.**, **Maskow, T.** (2017):  
A simple method for the measurement of metabolic heat production rates during solid-state fermentations using β-carotene production with *Blakeslea trispora* as a model system  
*Eng. Life Sci.* **17** (6), 620 - 628
13. Andrade, T.S., Henriques, J.F., Almeida, A.R., Soares, A.M.V.M., **Scholz, S.**, Dominigues, I. (2017):  
Zebrafish embryo tolerance to environmental stress factors—Concentration–dose response analysis of oxygen limitation, pH, and UV-light irradiation  
*Environ. Toxicol. Chem.* **36** (3), 682 - 690
14. Antić-Mladenović, S., Frohne, T., Kresović, M., **Stärk, H.-J.**, Savić, D., Ličina, V., Rinklebe, J. (2017):  
Redox-controlled release dynamics of thallium in periodically flooded arable soil  
*Chemosphere* **178** , 268 - 276
15. Antić-Mladenović, S., Frohne, T., Kresović, M., **Stärk, H.-J.**, Tomić, Z., Ličina, V., Rinklebe, J. (2017):  
Biogeochemistry of Ni and Pb in a periodically flooded arable soil: Fractionation and redox-induced (im)mobilization  
*J. Environ. Manage.* **186** (Part 2), 141 - 150

16. Anto, J.M., Bousquet, J., Akdis, M., Auffray, C., Keil, T., Momas, I., Postma, D.S., Valenta, R., Wickman, M., Cambon-Thomsen, A., Haahtela, T., Lambrecht, B.N., Lodrup Carlsen, K.C., Koppelman, G.H., Sunyer, J., Zuberbier, T., Annesi-Maesano, I., Arno, A., Bindslev-Jensen, C., De Carlo, G., Forastiere, F., Heinrich, J., Kowalski, M.L., Maier, D., Melén, E., Smit, H.A., Standl, M., Wright, J., Asarnoj, A., Benet, M., Ballardini, N., Garcia-Aymerich, J., Gehring, U., Guerra, S., Hohmann, C., Kull, I., Lupinek, C., Pinart, M., Skrindo, I., Westman, M., Smagghe, D., Akdis, C., Andersson, N., Bachert, C., Ballereau, S., Ballester, F., Basagana, X., Bedbrook, A., Bergstrom, A., von Berg, A., Brunekreef, B., Burte, E., Carlsen, K.-H., Chatzi, L., Coquet, J.M., Curin, M., Demoly, P., Eller, E., Fantini, M.P., von Hertzen, L., Hovland, V., Jacquemin, B., Just, J., Keller, T., Kiss, R., Kogevinas, M., Koletzko, S., Lau, S., **Lehmann, I.**, Lemonnier, N., Mäkelä, M., Mestres, J., Mowinckel, P., Nadif, R., Nawijn, M.C., Pellet, J., Pin, I., Porta, D., Rancière, F., Rial-Sebbag, E., Saeys, Y., Schuijs, M.J., Siroux, V., Tischer, C.G., Torrent, M., Varraso, R., Wenzel, K., Xu, C.-J. (2017):  
Mechanisms of the Development of Allergy (MeDALL): Introducing novel concepts in allergy phenotypes  
*J. Allergy Clin. Immunol.* **139** (2), 388 - 399
17. Armitage, J.M., Erickson, R.J., **Luckenbach, T.**, Ng, C.A., Prosser, R.S., Arnot, J.A., Schirmer, K., Nichols, J.W. (2017):  
Assessing the bioaccumulation potential of ionizable organic compounds: Current knowledge and research priorities  
*Environ. Toxicol. Chem.* **36** (4), 882 - 897
18. Armstrong, R.T., McClure, J.E., Berill, M.A., Rücker, M., **Schlüter, S.**, Berg, S. (2017):  
Flow regimes during immiscible displacement  
*Petrophysics* **58** (1), 10 - 18
19. Arp, H.P.H., Brown, T.N., **Berger, U.**, Hale, S.E. (2017):  
Ranking REACH registered neutral, ionizable and ionic organic chemicals based on their aquatic persistency and mobility  
*Environ. Sci.-Proc. Imp.* **19** (7), 939 - 955
20. **Asadi, A., Dietrich, P., Paasche, H.** (2017):  
Spatially continuous probabilistic prediction of sparsely measured ground properties constrained by ill-posed tomographic imaging considering data uncertainty and resolution  
*Geophysics* **82** (3), V149 - V162
21. Ashauer, R., O'Connor, I., **Escher, B.I.** (2017):  
Toxic mixtures in time-the sequence makes the poison  
*Environ. Sci. Technol.* **51** (5), 3084 - 3092

22. **Aurich, A.**, Hofmann, J., Oltrogge, R., Wecks, M., Gläser, R., Blömer, L., Mauersberger, S., **Müller, R.A.**, Sicker, D., Giannis, A. (2017): Improved isolation of microbiologically produced (2R,3S)-isocitric acid by adsorption on activated carbon and recovery with methanol  
*Org. Process Res. Dev.* **21** (6), 866 - 870
23. Averbeck, M., **Kuhn, S.**, Bühligen, J., Götte, M., Simon, J.C., **Polte, T.** (2017): Syndecan-1 regulates dendritic cell migration in cutaneous hypersensitivity to haptens  
*Exp. Dermatol.* **26** (11), 1060 - 1067
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*Bioprocess. Biosyst. Eng.* **40** (8), 1283 - 1289
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*Environ. Sci.-Proc. Imp.* **19** (3), 288 - 299
26. Aylward, L., **Kappelmeyer, U.**, Bonner, R., Hecht, P., Sheridan, C. (2017): Investigation into the kinetics of constructed wetland degradation processes as a precursor to biomimetic design  
*Water SA* **43** (4), 655 - 665
27. Bader, M., Müller, K., Foerstendorf, H., Drobot, B., **Schmidt, M.**, **Musat, N.**, Swanson, J.S., Reed, D.T., Stumpf, T., Cherkouk, A. (2017): Multistage bioassociation of uranium onto an extremely halophilic archaeon revealed by a unique combination of spectroscopic and microscopic techniques  
*J. Hazard. Mater.* **327** , 225 - 232
28. Bannister, J.R., Kremer, K., **Carrasco-Farías, N.V.**, Galindo, N. (2017): Importance of structure for species richness and tree species regeneration niches in old-growth Patagonian swamp forests  
*For. Ecol. Manage.* **401** , 33 - 44
29. **Banzhaf, E.**, Kabisch, S., Knapp, S., Rink, D., Wolff, M., Kindler, A. (2017): Integrated research on land-use changes in the face of urban transformations – an analytic framework for further studies  
*Land Use Pol.* **60** , 403 - 407
30. Baqar, M., **Arslan, M.**, Sadef, Y., Mahmood, A., Qadir, A., Ahmad, S.R. (2017): Persistent organic pollutants in Pakistan: potential threat to ecological integrities in terms of genotoxicity and oxidative stress  
*Hum. Ecol. Risk Assess.* **23** (6), 1249 - 1271

31. Baranov, V., Milošević, D., **Kurz, M.J.**, Zarnetske, J.P., Sabater, F., Martí, E., Robertson, A., **Brandt, T.**, Sorolla, A., Lewandowski, J., Krause, S. (2017): Helophyte impacts on the response of hyporheic invertebrate communities to inundation events in intermittent streams  
*Ecohydrology* **10** (6), e1857
32. Bardelli, T., Gómez-Brandón, N., Ascher-Jenull, J., Fornasier, F., Arfaiali, P., **Francioli, D.**, Egli, M., Sartori, G., Insam, H., Pietramellara, G. (2017): Effects of slope exposure on soil physico-chemical and microbiological properties along an altitudinal climosequence in the Italian Alps  
*Sci. Total Environ.* **575**, 1041 - 1055
33. Baró, F., Gómez-Bagethun, E., **Haase, D.** (2017): Ecosystem service bundles along the urban-rural gradient: Insights for landscape planning and management  
*Ecosystem Services* **24**, 147 - 159
34. Baron, J.S., Specht, A., Garnier, E., Bishop, P., Campbell, C.A., Davis, F.W., Fady, B., Field, D., Gross, L.J., Guru, S.M., Halpern, B.S., Hampton, S.E., Leavitt, P.R., Meagher, T.R., Ometto, J., Parker, J.N., Price, R., Rawson, C.H., Rodrigo, A., Sheble, L.A., **Winter, M.** (2017): Synthesis centers as critical research infrastructure  
*Bioscience* **67** (8), 750 - 759
35. **Baroni, G., Zink, M., Kumar, R., Samaniego, L., Attinger, S.** (2017): Effects of uncertainty in soil properties on simulated hydrological states and fluxes at different spatio-temporal scales  
*Hydrol. Earth Syst. Sci.* **21** (5), 2301 - 2320
36. Barth, J.A.C., Mader, M., Nenning, F., van Geldern, R., **Friese, K.** (2017): Stable isotope mass balances versus concentration differences of dissolved inorganic carbon – implications for tracing carbon turnover in reservoirs  
*Isot. Environ. Health Stud.* **53** (4), 413 - 426
37. **Bartkowski, B.** (2017): Degrowth, organic agriculture and GMOs: A reply to Gomiero (2017, JCLEPRO)  
*J. Clean Prod.* **168**, 904 - 907
38. **Bartkowski, B.** (2017): Are diverse ecosystems more valuable? Economic value of biodiversity as result of uncertainty and spatial interactions in ecosystem service provision  
*Ecosystem Services* **24**, 5057

39. **Bartkowski, B., Lienhoop, N.** (2017):  
Democracy and valuation: A reply to Schläpfer (2016)  
*Ecol. Econ.* **131**, 557 - 560
40. Barton, D.N., Benavides, K., Chacon-Cascante, A., Le Coq, J.F., Quiros, M.M., Porras, I., Primmer, E., **Ring, I.** (2017):  
Payments for ecosystem services as a policy mix: demonstrating the institutional analysis and development framework on conservation policy instruments  
*Environ. Policy Gov.* **27** (5), 404 - 421
41. Barton, D.N., **Ring, I.**, Rusch, G.M. (2017):  
Policy Mixes: Aligning instruments for biodiversity conservation and ecosystem service provision  
*Environ. Policy Gov.* **27** (5), 397 - 403
42. Basen, M., Fleckenstein, K.M., **Rinke, K.**, Rothhaupt, K.-O., Martin-Creuzburg, D. (2017):  
Impact of temperature and nutrient dynamics on growth and survival of *Corbicula fluminea*: A field study in oligotrophic Lake Constance  
*Int. Rev. Hydrobiol.* **102** (1-2), 15 - 28
43. Bastida, F., Torres, I.F., Andrés-Abellán, M., Baldrian, P., López-Mondéjar, R., Větrovský, T., **Richnow, H.H.**, **Starke, R.**, Ondoño, S., García, C., López-Serrano, F., **Jehmlich, N.** (2017):  
Differential sensitivity of total and active soil microbial communities to drought and forest management  
*Glob. Change Biol.* **23** (10), 4185 - 4203
44. Bataineh, M., Arabi, A.A., Iqbal, J., Howari, F.M., **Brack, W.** (2017):  
Method development for selective and nontargeted identification of nitro compounds in diesel particulate matter  
*Energy Fuels* **31** (11), 11615 - 11626
45. **Batbayar, G., Pfeiffer, M., von Tümpeling, W., Kappas, M., Karthe, D.** (2017):  
Chemical water quality gradients in the Mongolian sub-catchments of the Selenga River basin  
*Environ. Monit. Assess.* **189** (8), art. 420
46. **Bauer, M., Fink, B., Seyfarth, H.-J., Wirtz, H., Frille, A.** (2017):  
Tobacco-smoking induced GPR15-expressing T cells in blood do not indicate pulmonary damage  
*BMC Pulm. Med.* **17**, art. 159

47. Bauer, S., Dahmke, A., **Kolditz, O.** (2017):  
Subsurface energy storage: geological storage of renewable energy—capacities, induced effects and implications  
*Environ. Earth Sci.* **76** (20), art. 695
48. **Baumer, A., Bittermann, K., Klüver, N., Escher, B.I.** (2017):  
Baseline toxicity and ion-trapping models to describe the pH-dependence of bacterial toxicity of pharmaceuticals  
*Environ. Sci.-Proc. Imp.* **19** (7), 901 - 916
49. **Baumgarten, T.**, Schlegel, S., Wagner, S., Löw, M., Eriksson, J., Bonde, I., Herrgård, M.J., **Heipieper, H.J.**, Nørholm, M.H.H., Slotboom, D.J., de Gier, J.W. (2017):  
Isolation and characterization of the *E. coli* membrane protein production strain Mutant56(DE3)  
*Sci. Rep.* **7** , art. 45089
50. **Beck, S., Esguerra, A., Goerg, C.** (2017):  
The co-production of scale and power: the case of the *Millennium Ecosystem Assessment* and the *Intergovernmental Platform on Biodiversity and Ecosystem Services*  
*J. Environ. Pol. Plan.* **19** (5), 534 - 549
51. **Beck, S.**, Mahony, M. (2017):  
The IPCC and the politics of anticipation  
*Nat. Clim. Chang.* **7** (5), 311 - 313
52. **Becker, J.M., Liess, M.** (2017):  
Species diversity hinders adaptation to toxicants  
*Environ. Sci. Technol.* **51** (17), 10195 - 10202
53. **Becker, R., Thrän, D.** (2017):  
Completion of wind turbine data sets for wind integration studies applying random forests and k-nearest neighbors  
*Appl. Energy* **208** , 252 - 262
54. Becker, S., **Kunze, C.**, Vancea, M. (2017):  
Community energy and social entrepreneurship: Addressing purpose, organisation and embeddedness of renewable energy projects  
*J. Clean Prod.* **147** , 25 - 36
55. **Begg, C., Ueberham, M., Masson, T., Kuhlicke, C.** (2017):  
Interactions between citizen responsibilization, flood experience and household resilience: insights from the 2013 flood in Germany  
*Int. J. Water Resour. Dev.* **33** (4), 591 - 608

56. Beichler, S.A., Bastian, O., **Haase, D.**, Heiland, S., **Kabisch, N.**, Müller, F. (2017): Does the ecosystem service concept reach its limits in urban environments?  
*Landscape Online* **51**, 1 - 21
57. Bender, I.M.A., Kissling, W.D., Böhning-Gaese, K., Hensen, I., **Kühn, I.**, **Wiegand, T.**, Dehling, D.M., Schleuning, M. (2017): Functionally specialised birds respond flexibly to seasonal changes in fruit availability  
*J. Anim. Ecol.* **86** (4), 800 - 811
58. Betzholtz, P.-E., **Franzén, M.**, Forsman, A. (2017): Colour pattern variation can inform about extinction risk in moths  
*Anim. Conserv.* **20** (1), 72 - 79
59. Biederman, L.A., Phelps, J., Ross, B.J., Polzin, M., **Harpole, W.S.** (2017): Biochar and manure alter few aspects of prairie development: A field test  
*Agric. Ecosyst. Environ.* **236**, 78 - 87
60. Bieger, K., Arnold, J.G., Rathjens, H., White, M.J., Bosch, D.D., Allen, P.M., **Volk, M.**, Srinivasan, R. (2017): Introduction to SWAT+, a completely restructured version of the Soil and Water Assessment Tool  
*J. Am. Water Resour. Assoc.* **53** (1), 115 - 130
61. **Billig, E., Thrän, D.** (2017): Renewable methane – A technology evaluation by multi-criteria decision making from a European perspective  
*Energy* **139**, 468 - 484
62. **Billig, E., Thrän, D.**, Pu, P., Yu, C. (2017): The standardisation, production and utilisation of biomethane in Europe and China - a comprehensive analysis  
*Int. J. Oil Gas Coal Technol.* **14** (1-2), 110 - 129
63. Binder, S., Hösler, N., Riedel, D., Zipfel, I., Buschmann, T., **Kämpf, C.**, **Reiche, K.**, Burger, R., Gramatzki, M., **Hackermüller, J.**, Stadler, P.F., Horn, F. (2017): STAT3-induced long noncoding RNAs in multiple myeloma cells display different properties in cancer  
*Sci. Rep.* **7**, art. 7976
64. Biswas, J.K., Hazra, S., Majumdar, J., Mandal, S.K., Shaheen, S.M., Sarkar, S.K., **Meissner, R.**, Meers, E., Rinklebe, J. (2017): Impact of raking and bioturbation-mediated ecological manipulation on sediment–water phosphorus diagenesis: a mesocosm study supported with radioactive signature  
*Environ. Geochem. Health* **39** (6), 1563 - 1581

65. **Bittermann, K., Goss, K.-U.** (2017):  
Predicting apparent passive permeability of Caco-2 and MDCK cell-monolayers: A mechanistic model  
*PLOS One* **12** (12), e0190319
66. **Bittermann, K., Goss, K.-U.** (2017):  
Assessing the toxicity of ionic liquids – Application of the critical membrane concentration approach  
*Chemosphere* **183**, 410 - 418
67. **Bittermann, K., Spycher, S., Goss, K.-U.** (2017):  
Erratum to “Comparison of different models predicting the phospholipid-membrane water partition coefficients of charged compounds” [Chemosphere 144C (2016) 382–391]  
*Chemosphere* **179**, 405 - 406
68. Blöschl, G., Hall, J., Parajka, J., Perdigão, R.A.P., Merz, B., Arheimer, B., Aronica, G.T., Bilibashi, A., Bonacci, O., Borga, M., Čanjevac, I., Castellarin, A., Chirico, G.B., Claps, P., Fiala, K., Frolova, N., Gorbachova, L., Gül, A., Hannaford, J., Harrigan, S., Kireeva, M., Kiss, A., Kjeldsen, T.R., Kohnová, S., Koskela, J.J., Ledvinka, O., Macdonald, N., Mavrova-Guirguinova, M., Mediero, L., **Merz, R.**, Molnar, P., Montanari, A., Murphy, C., Osuch, M., Ovcharuk, V., Radevski, I., Rogger, M., Salinas, J.L., Sauquet, E., Šraj, M., Szolgay, J., Viglione, A., Volpi, E., Wilson, D., Zaimi, K., Živković, N. (2017):  
Changing climate shifts timing of European floods  
*Science* **357** (6351), 588 - 590
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Genetic diversity in chrysophytes: Comparison of different gene markers  
*Fottea* **17** (2), 209 - 221
70. **Böhme, S.**, Baccaro, M., Schmidt, M., Potthoff, A., **Stärk, H.-J.**, Reemtsma, T., **Kühnel, D.** (2017):  
Metal uptake and distribution in the zebrafish (*Danio rerio*) embryo: differences between nanoparticles and metal ions  
*Environ. Sci.: Nano* **4** (5), 1005 - 1015
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The importance of forest structure to biodiversity–productivity relationships  
*R. Soc. Open Sci.* **4**, art. 160521

72. Bond, A.E., Brusky, I., Cao, T., Chittenden, N., Fedors, R., Feng, X.-T., Gwo, J.-P., **Kolditz, O.**, Lang, P., McDermott, C., Neretnieks, I., Pan, P.-Z., Šembera, J., Shao, H., **Watanabe, N.**, Yasuhara, H., Zheng, H. (2017): A synthesis of approaches for modelling coupled thermal–hydraulic–mechanical–chemical processes in a single novaculite fracture experiment  
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74. Bonner, R., Aylward, L., Harley, C., **Kappelmeyer, U.**, Sheridan, C.M. (2017): Heat as a hydraulic tracer for horizontal subsurface flow constructed wetlands  
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76. Boodoo, K., **Trauth, N.**, **Schmidt, C.**, Schelker, J., Battin, T.J. (2017): Gravel bars are sites of increased CO<sub>2</sub> outgassing in stream corridors  
*Sci. Rep.* **7** , art. 14401
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79. Borgonovo, E., Lu, X., Plischke, E., **Rakovec, O.**, Hill, M.C. (2017): Making the most out of a hydrological model data set: Sensitivity analyses to open the model black-box  
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80. **Born, J., Michalski, S.G.** (2017): Strong divergence in quantitative traits and plastic behavior in response to nitrogen availability among provenances of a common wetland plant  
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