

Publikationen

Zeitschriftenbeiträge

Referierte Zeitschriftenbeiträge mit Impact-Faktor

- Aas, Ø., Cucherousset, J., Fleming, I. A., Wolter, C., Höjesjö, J., Buoro, M., ... Arlinghaus, R. (2018). Salmonid stocking in five North Atlantic jurisdictions: identifying drivers and barriers to policy change. *Aquatic Conservation*, 28(6), 1451-1464. doi:10.1002/aqc.2984
- Abdellatif, A. A. H., Abou-Taleb, H. A., Abd El Ghany, A. A., Lutz, I., & Bouazzaoui, A. (2018). Targeting of somatostatin receptors expressed in blood cells using quantum dots coated with vapreotide. *Saudi Pharmaceutical Journal*, 26(8), 1162-1169. doi:10.1016/j.jsps.2018.07.004
- Agha, R., Groß, A. J., Gerphagnon, M., Rohrlack, T., & Wolinska, J. (2018). Fitness and eco-physiological response of a chytrid fungal parasite infecting planktonic cyanobacteria to thermal and host genotype variation. *Parasitology*, 145(10), 1279-1286. doi:10.1017/S0031182018000215
- Agha, R., Groß, A. J., Rohrlack, T., & Wolinska, J. (2018). Adaptation of a chytrid parasite to its cyanobacterial host is hampered by host intraspecific diversity. *Frontiers in Microbiology*, 9, 1-10. doi:10.3389/fmicb.2018.00921
- Ala-Aho, P., Soulsby, C., Pokrovsky, O. S., Kirpotin, S. N., Karlsson, J., Serikova, S., ... Tetzlaff, D. (2018). Permafrost and lakes control river isotope composition across a boreal Arctic transect in the Western Siberian lowlands. *Environmental Research Letters*, 13(3), 1-11. doi:10.1088/1748-9326/aaa4fe
- Ala-Aho, P., Soulsby, C., Pokrovsky, O. S., Kirpotin, S. N., Karlsson, J., Serikova, S., ... Tetzlaff, D. (2018). Using stable isotopes to assess surface water source dynamics and hydrological connectivity in a high-latitude wetland and permafrost influenced landscape. *Journal of Hydrology*, 556, 279-293. doi:10.1016/j.jhydrol.2017.11.024
- Amatulli, G., Domisch, S., Tuanmu, M.-N., Parmentier, B., Ranipeta, A., Malczyk, J., & Jetz, W. (2018). A suite of global, cross-scale topographic variables for environmental and biodiversity modeling. *Scientific Data*, 5, 180040. doi:10.1038/sdata.2018.40
- Andersen, K. H., Marty, L., & Arlinghaus, R. (2018). Evolution of boldness and life history in response to selective harvesting. *Canadian Journal of Fisheries and Aquatic Sciences*, 75(2), 271-281. doi:10.1139/cjfas-2016-0350
- Arce, M. I., Von Schiller, D., Bengtsson, M. M., Hinze, C., Jung, H., Alves, R. J. E., ... Singer, G. A. (2018). Drying and rainfall shape the structure and functioning of nitrifying microbial communities in riverbed sediments. *Frontiers in Microbiology*, 9, 2794. doi:10.3389/fmicb.2018.02794
- Arias-Andres, M., Kettner, M. T., Miki, T., & Grossart, H.-P. (2018). Microplastics: new substrates for heterotrophic activity contribute to altering organic matter cycles in aquatic ecosystems. *Science of the Total Environment*, 635, 1152-1159. doi:10.1016/j.scitotenv.2018.04.199
- Arias-Andres, M., Klümper, U., Rojas-Jimenez, K., & Grossart, H.-P. (2018). Microplastic pollution increases gene exchange in aquatic ecosystems. *Environmental Pollution*, 237, 253-261. doi:10.1016/j.envpol.2018.02.058
- Arias-Andres, M., Rämö, R., Mena Torres, F., Ugalde, M. d. R., Grandas, L., Ruepert, C., ... Gunnarsson, J. S. (2018). Lower tier toxicity risk assessment of agriculture pesticides detected on the Rio Madre de Dios watershed, Costa Rica. *Environmental Science and Pollution Research*, 25(14), 13312-13321. doi:10.1007/s11356-016-7875-7
- Arora, R., Toffolon, M., Tockner, K., & Venohr, M. (2018). Thermal discontinuities along a lowland river: the importance of urban areas and lakes. *Journal of Hydrology*, 564, 811-823. doi:10.1016/j.jhydrol.2018.05.066
- Bacher, S., Blackburn, T. M., Essl, F., Genovesi, P., Heikkilä, J., Jeschke, J. M., ... Kumschick, S. (2018). Socio-economic impact classification of alien taxa (SEICAT). *Methods in Ecology and Evolution*, 9(1), 159-168. doi:10.1111/2041-210X.12844
- Bachmann, J., Heimbach, T., Hassenrück, C., Kopprio, G. A., Iversen, M. H., Grossart, H.-P., & Gärdes, A. (2018). Environmental drivers of free-living vs. particle-attached bacterial community composition in the Mauritania upwelling system. *Frontiers in Microbiology*, 9, 2836. doi:10.3389/fmicb.2018.02836
- Balint, M., Marton, O., Schatz, M., Düring, R.-A., & Grossart, H.-P. (2018). Proper experimental design requires randomization/balancing of molecular ecology experiments. *Ecology and Evolution*, 8(3), 1786-1793. doi:10.1002/ece3.3687

- Banks, E. W., Shanafield, M. A., Noorduijn, S., McCallum, J. L., Lewandowski, J., & Batelaan, O. (2018). Active heat pulse sensing of 3-D-flow fields in streambeds. *Hydrology and Earth System Sciences*, 22(3), 1917-1929. doi:10.5194/hess-22-1917-2018
- Baycelebi, E., Kaya, C., Turan, D., Ergüden, S. A., & Freyhof, J. (2018). Redescription of *Garra turcica* from southern Anatolia (Teleostei: Cyprinidae). *Zootaxa*, 4524(2), 227-236. doi:10.11646/zootaxa.4524.2.6
- Becker, K. W., Elling, F. J., Schröder, J. M., Lipp, J. S., Goldhammer, T., Zabel, M., ... Hinrichs, K.-U. (2018). Isoprenoid quinones resolve the stratification of redox processes in a biogeochemical continuum from the photic zone to deep anoxic sediments of the Black Sea. *Applied and Environmental Microbiology*. doi:10.1128/AEM.02736-17
- Bellard, C., Jeschke, J. M., Leroy, B., & Mace, G. M. (2018). Insights from modeling studies on how climate change affects invasive alien species geography. *Ecology and Evolution*, 8(11), 5688-5700. doi:10.1002/ece3.4098
- Bergkvist, J., Klawonn, I., Whitehouse, M. J., Lavik, G., Brückert, V., & Ploug, H. (2018). Turbulence simultaneously stimulates small- and large-scale CO₂ sequestration by chain-forming diatoms in the sea. *Nature Communications*, 9(1), 3046. doi:10.1038/s41467-018-05149-w
- 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. *Proceedings of the Royal Society of London : Ser. B, Biological Sciences*, 285(1872). doi:10.1098/rspb.2017.2667
- Bierbach, D., Arias-Rodriguez, L., & Plath, M. (2018). Intrasexual competition enhances reproductive isolation between locally adapted populations. *Current Zoology*, 64(1), 125-133. doi:10.1093/cz/zox071
- Bierbach, D., Landgraf, T., Romanczuk, P., Lukas, J., Nguyen, H., Wolf, M., & Krause, J. (2018). Using a robotic fish to investigate individual differences in social responsiveness in the guppy. *Royal Society Open Science*, 5(8), 181026. doi:10.1098/rsos.181026
- Birkel, C., Helliwell, R., Thornton, B., Gibbs, S., Cooper, P., Soulsby, C., ... Midwood, A. J. (2018). Characterization of surface water isotope spatial patterns of Scotland. *Journal of Geochemical Exploration*, 194, 71-80. doi:10.1016/j.gexplo.2018.07.011
- Bizic-Ionescu, M., Ionescu, D., & Grossart, H.-P. (2018). Organic particles: heterogeneous hubs for microbial interactions in aquatic ecosystems. *Frontiers in Microbiology*, 9, 2569. doi:10.3389/fmicb.2018.02569
- Blaen, P. J., Kurz, M. J., Drummond, J. D., Knapp, J. L. A., Mendoza-Lera, C., Schmadel, N. M., ... Krause, S. (2018). Woody debris is related to reach-scale hotspots of lowland stream ecosystem respiration under baseflow conditions. *Ecohydrology*, 11(5). doi:10.1002/eco.1952
- Botterel, F., Angebault, C., Cabaret, O., Stressmann, F. A., Costa, J.-M., Wallet, F., ... Delhaes, L. (2018). Fungal and bacterial diversity of airway microbiota in adults with cystic fibrosis: concordance between conventional methods and ultra-deep sequencing, and their practical use in the clinical laboratory. *Mycopathologia*, 183(1), 171-183. doi:10.1007/s11046-017-0185-x
- Braga, R. R., Gomez-Aparicio, L., Heger, T., Vitule, J. R. S., & Jeschke, J. M. (2018). Structuring evidence for invasional meltdown: broad support but with biases and gaps. *Biological Invasions*, 20(4), 923-936. doi:10.1007/s10530-017-1582-2
- Brahimi, A., Libois, R., Henrard, A., & Freyhof, J. (2018). *Luciobarbus lanigarensis* and *L. numidiensis*, two new species of barbels from the Mediterranean Sea basin in North Africa (Teleostei: Cyprinidae). *Zootaxa*, 4433(3), 542-560. doi:10.11646/zootaxa.4433.3.9
- Brauns, M., Boechat, 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. *Freshwater Biology*, 63(10), 1240-1249. doi:10.1111/fwb.13129
- Bravo, A. G., Kothawala, D. N., Attermeyer, K., Tessier, E., Bodmer, P., Ledesma, J. L. J., ... Amouroux, D. (2018). The interplay between total mercury, methylmercury and dissolved organic matter in fluvial systems: a latitudinal study across Europe. *Water Research*, 144, 172-182. doi:10.1016/j.watres.2018.06.064
- Britstein, M., Saurav, K., Teta, R., Della Sala, G., Bar-Shalom, R., Stoppelli, N., ... Steindler, L. (2018). Identification and chemical characterization of N-acyl-homoserine lactone quorum sensing signals across sponge species and time. *FEMS Microbiology Ecology*, 94(2). doi:10.1093/femsec/fix182
- Broecker, T., Elsesser, W., Teuber, K., Özgen, I., Nützmann, G., & Hinkelmann, R. (2018). High-resolution simulation of free-surface flow and tracer retention over streambeds with ripples. *Limnologica*, 68, 46-58. doi:10.1016/j.limno.2017.06.005
- Bruce, L. C., Frassl, M. A., Arhonditsis, G. B., Gal, G., Hamilton, D. P., Hanson, P. C., ... Hipsey, M. R. (2018). A multi-lake comparative analysis of the General Lake Model (GLM): stress-testing across a global observatory network. *Environmental Modelling & Software*, 102, 274-291. doi:10.1016/j.envsoft.2017.11.016
- Brucet, S., Arranz, I., Mehner, T., Argillier, C., Beklioglu, M., Benejam, L., ... Jeppesen, E. (2018). Size diversity and species diversity relationships in fish assemblages of Western Palearctic lakes. *Ecography*, 41(7), 1064-1076. doi:10.1111/ecog.03255

- Brüning, A., Höller, F., Franke, S., Kleiner, W., & Kloas, W. (2018). Influence of light intensity and spectral composition of artificial light at night on melatonin rhythm and mRNA expression of gonadotropins in roach *Rutilus rutilus*. *Fish Physiology and Biochemistry*, 44(1), 1-12. doi:10.1007/s10695-017-0408-6
- Brüning, A., Kloas, W., Preuer, T., & Höller, F. (2018). Influence of artificially induced light pollution on the hormone system of two common fish species, perch and roach, in a rural habitat. *Conservation Physiology*, 6(1), coy016. doi:10.1093/conphys/coy016
- Bursell, J. J., & Arlinghaus, R. (2018). Citizen science data suggest that a novel rig improves landing rate and reduces injury and handling time in recreational angling with artificial lures in Baltic pike (*Esox lucius*). *PeerJ*, 6, e4744. doi:10.7717/peerj.4744
- Carlsen, L., Brüggemann, R., & Kenessov, B. (2018). Use of partial order in environmental pollution studies demonstrated by urban BTEX air pollution in 20 major cities worldwide. *Science of the Total Environment*, 610-611, 234-243. doi:10.1016/j.scitotenv.2017.08.029
- Celussi, M., Quero, G. M., Zoccarato, L., Franzo, A., Corinaldesi, C., Rastelli, E., ... Luna, G. M. (2018). Planktonic prokaryote and protist communities in a submarine canyon system in the Ligurian Sea (NW Mediterranean). *Progress in Oceanography*, 168, 210-221. doi:10.1016/j.pocean.2018.10.002
- Cooke, S. J., Twardek, W. M., Lennox, R. J., Zolderdo, A. J., Bower, S. D., Gutowsky, L. F. G., ... Beard, T. D. (2018). The nexus of fun and nutrition: recreational fishing is also about food. *Fish and Fisheries*, 19(2), 201-224. doi:10.1111/faf.12246
- Correira, R. A., Jaric, I., Jepson, P., Malhado, A. C. M., Alves, J. A., & Ladle, R. J. (2018). Nomenclature instability in species culturomic assessments: why synonyms matter. *Ecological Indicators*, 90, 74-78. doi:10.1016/j.ecolind.2018.02.059
- Courchamp, F., Jaric, I., Albert, C., Meinard, Y., Ripple, W. J., & Chapron, G. (2018). The paradoxical extinction of the most charismatic animals. *PLoS Biology*, 16(4), e2003997. doi:10.1371/journal.pbio.2003997
- Quadrat, R. R. C., Ionescu, D., Davila, A. M. R., & Grossart, H.-P. (2018). Recovering genomics clusters of secondary metabolites from lakes using genome-resolved metagenomics. *Frontiers in Microbiology*, 9, 251. doi:10.3389/fmicb.2018.00251
- Cucherousset, J., Horky, P., Slavik, O., Ovidio, M., Arlinghaus, R., Bouletreau, S., ... Santoul, F. (2018). Ecology, behaviour and management of the European catfish. *Reviews in Fish Biology and Fisheries*, 28(1), 177-190. doi:10.1007/s11160-017-9507-9
- Cuco, A. P., Castro, B. B., Goncalves, F., Wolinska, J., & Abrantes, N. (2018). Temperature modulates the interaction between fungicide pollution and disease: evidence from a *Daphnia*-microparasitic yeast model. *Parasitology*, 145(7), 939-947. doi:10.1017/S0031182017002062
- Czarnecka, M., & Miler, O. (2018). Decay processes in woody debris influence the taxonomic and functional composition of littoral macroinvertebrates. *Canadian Journal of Fisheries and Aquatic Sciences*, 75(10), 1596-1605. doi:10.1139/cjfas-2017-0364
- Darwall, W., Bremerich, V., De Wever, A., Dell, A. I., Freyhof, J., Gessner, M. O., ... Weyl, O. L. F. (2018). The Alliance for Freshwater Life: a global call to unite efforts for freshwater biodiversity science and conservation. *Aquatic Conservation*, 28(4), 1015-1022. doi:10.1002/aqc.2958
- Datry, T., Boulton, A. J., Bonada, N., Fritz, K., Leigh, C., Sauquet, E., ... Dahm, C. N. (2018). Flow intermittence and ecosystem services in rivers of the Anthropocene. *Journal of Applied Ecology*, 55(1), 353-364. doi:10.1111/1365-2664.12941
- Datry, T., Foulquier, A., Corti, R., Von Schiller, D., Tockner, K., Mendoza-Lera, C., ... Zoppini, A. (2018). A global analysis of terrestrial plant litter dynamics in non-perennial waterways. *Nature Geoscience*, 11(7), 497-503. doi:10.1038/s41561-018-0134-4
- De la Fuente, M., Bonada, N., Beche, L., Dahm, C. N., Mendez, P. K., Tockner, K., ... Acuna, V. (2018). Evolutionary responses of aquatic macroinvertebrates to two contrasting flow regimes. *Hydrobiologia*, 808(1), 353-370. doi:10.1007/s10750-017-3437-3
- Dean, J. F., Van der Velde, Y., Garnett, M. H., Dinsmore, K. J., Baxter, R., Lessels, J. S., ... Billett, M. F. (2018). Abundant pre-industrial carbon detected in Canadian Arctic headwaters: implications for the permafrost carbon feedback. *Environmental Research Letters*, 13(3), 034024. doi:10.1088/1748-9326/aaa1fe
- Dehaspe, J., Birkel, C., Tetzlaff, D., Sanchez-Murillo, R., Duran-Quesada, A. M., & Soulsby, C. (2018). Spatially distributed tracer-aided modelling to explore water and isotope transport, storage and mixing in a pristine, humid tropical catchment. *Hydrological Processes*, 32(21), 3206-3224. doi:10.1002/hyp.13258
- Demandt, N., Saus, B., Kurvers, R. H. J. M., Krause, J., Kurtz, J., & Scharsack, J. P. (2018). Parasite-infected sticklebacks increase the risk-taking behaviour of uninfected group members. *Proceedings of the Royal Society of London : Ser. B, Biological Sciences*, 285(1881). doi:10.1098/rspb.2018.0956
- Denys, G. P. J., Persat, H., Dettai, A., Geiger, M. F., Freyhof, J., Fesquet, J., & Keith, P. (2018). Genetic and morphological discrimination of three species of ninespined stickleback *Pungitius* spp. (Teleostei, Gasterosteidae) in France with the revalidation of *Pungitius vulgaris* (Mauduyt, 1848). *Journal of Zoological Systematics and Evolutionary Research*, 56(1), 77-101. doi:10.1111/jzs.12178

- Deslauriers, D., Heironimus, L. B., Rapp, T., Graeb, B. D. S., Klumb, R. A., & Chipps, S. R. (2018). Growth potential and habitat requirements of endangered age-0 pallid sturgeon (*Scaphirhynchus albus*) in the Missouri River, USA, determined using a individual-based model framework. *Ecology of Freshwater Fish*, 27(1), 198-208. doi:10.1111/eff.12337
- Dick, J. J., Tetzlaff, D., Bradford, J., & Soulsby, C. (2018). Using repeat electrical resistivity surveys to assess heterogeneity in soil moisture dynamics under contrasting vegetation types. *Journal of Hydrology*, 559, 684-697. doi:10.1016/j.jhydrol.2018.02.062
- Dick, J. J., Tetzlaff, D., & Soulsby, C. (2018). Role of riparian wetlands and hydrological connectivity in the dynamics of stream thermal regimes. *Hydrology Research*, 49(3), 634-647. doi:10.2166/nh.2017.066
- Djukic, I., Kepfer-Rojas, S., Schmidt, I. K., Larsen, K. S., Beier, C., Berg, B., . . . TeaComposition. (2018). Early stage litter decomposition across biomes. *Science of the Total Environment*, 628-629, 1369-1394. doi:10.1016/j.scitotenv.2018.01.012
- Dubovskaya, O. P., Tolomeev, A. P., Kirillin, G., Buseva, Z., Tang, K. W., & Gladyshev, M. I. (2018). Effects of water column processes on the use of sediment traps to measure zooplankton non-predatory mortality: a mathematical and empirical assessment. *Journal of Plankton Research*, 40(1), 91-106. doi:10.1093/plankt/fbx066
- Dufresnes, C., Lymberakis, P., Kornilios, P., Savary, R., Perrin, N., & Stöck, M. (2018). Phylogeography of Aegean green toads (*Bufo viridis* subgroup): continental hybrid swarm vs. insular diversification with discovery of a new island endemic. *BMC Evolutionary Biology*, 18(1), 67. doi:10.1186/s12862-018-1179-0
- Eckert, E. M., Di Cesare, A., Kettner, M. T., Arias-Andres, M., Fontaneto, D., Grossart, H.-P., & Corno, G. (2018). Microplastics increase impact of treated wastewater on freshwater microbial community. *Environmental Pollution*, 234, 495-502. doi:10.1016/j.envpol.2017.11.070
- Enders, M., Hütt, M.-T., & Jeschke, J. M. (2018). Drawing a map of invasion biology based on a network of hypotheses. *Ecosphere*, 9(3), e02146. doi:10.1002/ecs2.2146
- Erös, T., Kuehne, L., Dolezsai, A., Sommerwerk, N., & Wolter, C. (2018). A systematic review of assessment and conservation management in large floodplain rivers - actions postponed. *Ecological Indicators*, 98, 453-461. doi:10.1016/j.ecolind.2018.11.026
- Essl, F., Bacher, S., Genovesi, P., Hulme, P. E., Jeschke, J. M., Katsanevakis, S., . . . Richardson, D. M. (2018). Which taxa are alien?: Criteria, applications, and uncertainties. *BioScience*, 68(7), 496-509. doi:10.1093/biosci/biy057
- Fabian, J., Zlatanovic, S., Mutz, M., Grossart, H.-P., Van Geldern, R., Ulrich, A., . . . Premke, K. (2018). Environmental control on microbial turnover of leaf carbon in streams - ecological function of phototrophic-heterotrophic interactions. *Frontiers in Microbiology*, 9, 1044. doi:10.3389/fmicb.2018.01044
- Fabris, L., Malcolm, I. A., Buddendorf, W. B., & Soulsby, C. (2018). Integrating process-based flow and temperature models to assess riparian forests and temperature amelioration in salmon streams. *Hydrological Processes*, 32(6), 776-791. doi:10.1002/hyp.11454
- Feld, C. K., Fernandes, M. R., Ferreira, M. T., Hering, D., Ormerod, S. J., Venohr, M., & Gutierrez-Canoval, C. (2018). Evaluating riparian solutions to multiple stressor problems in river ecosystems: a conceptual study. *Water Research*, 139, 381-394. doi:10.1016/j.watres.2018.04.014
- Feng, M., Zolezzi, G., & Pusch, M. T. (2018). Effects of thermopeaking on the thermal response of alpine river systems to heatwaves. *Science of the Total Environment*, 612, 1266-1275. doi:10.1016/j.scitotenv.2017.09.042
- Finger, J. S., Guttridge, T. L., Wilson, A. D. M., Gruber, S. H., & Krause, J. (2018). Are some sharks more social than others?: Short- and long-term consistencies in the social behavior of juvenile lemon sharks. *Behavioral Ecology and Sociobiology*.
- Fischer, P., Pöthig, R., Gücker, B., & Venohr, M. (2018). Phosphorus saturation and superficial fertilizer application as key parameters to assess the risk of diffuse phosphorus losses from agricultural soils in Brazil. *Science of the Total Environment*, 630, 1515-1527. doi:10.1016/j.scitotenv.2018.02.070
- Freyhof, J., Kaya, C., Baycelebi, E., Geiger, M. F., & Turan, D. (2018). Generic assignment of *Leuciscus kurui* Bogutskaya from the upper Tigris drainage, and a replacement name for *Alburnus kurui* Mangit & Yerli (Teleostei: Leuciscidae). *Zootaxa*, 4410(1), 113-135. doi:10.11646/zootaxa.4410.1.6
- Freyhof, J., Özulug, M., Kaya, C., Baycelebi, E., & Turan, D. (2018). Redescription of *Alburnus kotschy* Steindachner, 1863, with comments on *Alburnus sellal* adanensis Battalgazi, 1944 (Teleostei: Leuciscidae). *Zootaxa*, 4382(3), 573-582. doi:10.11646/zootaxa.4382.3.8
- Friedrich, T., Wiesner, C., Zangl, L., Daill, D., Freyhof, J., & Koblmüller, S. (2018). Romanogobio skywalkeri, a new gudgeon (Teleostei: Gobionidae) from the upper Mur River, Austria. *Zootaxa*, 4403(2), 336-350. doi:10.11646/zootaxa.4403.2.6
- Fugere, V., Mehner, T., & Chapman, L. J. (2018). Impacts of deforestation-induced warming on the metabolism, growth and trophic interactions of an afrotropical stream fish. *Functional Ecology*, 32(5), 1343-1357. doi:10.1111/1365-2435.13065

- Fujitani, M., Fenichel, E. P., Torre, J., & Gerber, L. R. (2018). Synthesizing ecological and human use information to understand and manage coastal change. *Ocean & Coastal Management*, 162, 100-109. doi:10.1016/j.ocecoaman.2017.10.001
- Gerchen, J. F., Dufresnes, C., & Stöck, M. (2018). Introgression across hybrid zones is not mediated by large x-effects in green toads with undifferentiated sex chromosomes. *American Naturalist*.
- Gesto, M., Liu, D., Pedersen, L.-F., Meinelt, T., Straus, D. L., & Jokumsen, A. (2018). Confirmation that pulse and continuous peracetic acid administration does not disrupt the acute stress response in rainbow trout. *Aquaculture*, 492, 190-194. doi:10.1016/j.aquaculture.2018.04.009
- Gil-Allue, C., Tlili, A., Schirmer, K., Gessner, M. O., & Behra, R. (2018). Long-term exposure to silver nanoparticles affects periphyton community structure and function. *Environmental Science : Nano*, 5(6), 1397-1407. doi:10.1039/C8EN00132D
- Gillefalk, M., Massmann, G., Nützmann, G., & Hilt, S. (2018). Potential impacts of induced bank filtration on surface water quality: a conceptual framework for future research. *Water*, 10(9). doi:10.3390/w10091240
- Goddek, S., Delaide, B. P. L., Joyce, A., Wuertz, S., Jijakli, M. H., Gross, A., ... Keesman, K. J. (2018). Nutrient mineralization and organic matter reduction performance of RAS-based sludge in sequential UASB-EGSB reactors. *Aquacultural Engineering*, 83, 10-19. doi:10.1016/j.aquaeng.2018.07.003
- Gong, Z., Freyhof, J., Wang, J., Liu, M., Liu, F., Lin, P., ... Liu, H. (2018). Two new species of Garra (Cypriniformes: Cyprinidae) from the lower Yarlung Tsangpo River drainage in southeastern Tibet, China. *Zootaxa*, 4532(3), 367-384. doi:10.11646/zootaxa.4532.3.3
- Gonzalez-Tortuero, E., Rodriguez-Beltran, J., Radek, R., Blazquez, J., & Rodriguez-Rojas, A. (2018). Clay-induced DNA breaks as a path for genetic diversity, antibiotic resistance, and asbestos carcinogenesis. *Scientific Reports*, 8(1), 8504. doi:10.1038/s41598-018-26958-5
- Göritz, A., Berger, S. A., Gege, P., Grossart, H.-P., Nejstgaard, J. C., Riedel, S., ... Utschig, C. (2018). Retrieval of water constituents from hyperspectral in-situ measurements under variable cloud cover: a case study at Lake Stechlin (Germany). *Remote Sensing*, 10(2), 181. doi:10.3390/rs10020181
- Graeber, D., Lorenz, S., Rosenstand Poulsen, J., Heinz, M., Von Schiller, D., Gücker, B., ... Kronvang, B. (2018). Assessing net-uptake of nitrate and natural dissolved organic matter fractions in a revitalized lowland stream reach. *Limnologica*, 68, 82-91. doi:10.1016/j.limno.2017.10.003
- Graeber, D., Poulsen, J. R., Heinz, M., Rasmussen, J. J., Zak, D., Gücker, B., ... Kamjunke, N. (2018). Going with the flow: planktonic processing of dissolved organic carbon in streams. *Science of the Total Environment*, 625, 519-530. doi:10.1016/j.scitotenv.2017.12.285
- Griebel, J., Utz, M., Hermission, J., & Wolinska, J. (2018). The establishment of hybrids of the *Daphnia longispina* complex explained by a mathematical model incorporating different overwintering life history strategies. *PLoS One*, 13(7), e0200802. doi:10.1371/journal.pone.0200802
- Grubisic, M., Singer, G. A., Bruno, M. C., Van Grunsven, R. H. A., Manfrin, A., Monaghan, M. T., & Hölker, F. (2018). A pigment composition analysis reveals community changes in preestablished stream periphyton under low-level artificial light at night. *Limnologica*, 69, 55-58. doi:10.1016/j.limno.2017.10.004
- Grubisic, M., Van Grunsven, R. H. A., Kyba, C. C. M., Manfrin, A., & Hölker, F. (2018). Insect declines and agroecosystems: does light pollution matter? *Annals of Applied Biology*, 173(2), 180-189. doi:10.1111/aab.12440
- Grubisic, M., Van Grunsven, R. H. A., Manfrin, A., Monaghan, M. T., & Hölker, F. (2018). A transition to white LED increases ecological impacts of nocturnal illumination on aquatic primary producers in a lowland agricultural drainage ditch. *Environmental Pollution*, 240, 630-638. doi:10.1016/j.envpol.2018.04.146
- Gruen, D. S., Wang, D. T., Könneke, M., Topcuoglu, B. D., Stewart, L. C., Goldhammer, T., ... Ono, S. (2018). Experimental investigation on the controls of clumped isotopologue and hydrogen isotope ratios in microbial methane. *Geochimica et Cosmochimica Acta*, 237, 339-356. doi:10.1016/j.gca.2018.06.029
- Gunkel, G., Selge, F., Keitel, J., Lima, D., Calado, S., Sobral, M., ... Hupfer, M. (2018). Water management and aquatic ecosystem services of a tropical reservoir (Itaparica, São Francisco, Brazil). *Regional Environmental Change*, 18(7), 1913-1925. doi:10.1007/s10113-018-1324-8
- Guselnikov, S. V., Baranov, K. O., Najakshin, A. M., Mechetina, L. V., Chikaev, N. A., Makunin, A. I., ... Taranin, A. V. (2018). Diversity of immunoglobulin light chain genes in non-teleost ray-finned fish uncovers IgL subdivision into five ancient isotypes. *Frontiers in Immunology*, 9, 1079. doi:10.3389/fimmu.2018.01079
- Hänel, A., Posch, T., Ribas, S. J., Aube, M., Duriscoe, D., Jechow, A., ... Kyba, C. C. M. (2018). Measuring night sky brightness: methods and challenges. *Journal of Quantitative Spectroscopy & Radiative Transfer*, 205, 278-290. doi:10.1016/j.jqsrt.2017.09.008

- Haraldsson, M., Gerphagnon, M., Bazin, P., Colombet, J., Tecchio, S., Sime-Ngando, T., & Niquil, N. (2018). Microbial parasites make cyanobacteria blooms less of a trophic dead end than commonly assumed. *ISME Journal*, 12(4), 1008-1020. doi:10.1038/s41396-018-0045-9
- Harrison, H. L., Kochalski, S., Arlinghaus, R., & Aas, Ø. (2018). "Nature's little helpers": a benefits approach to voluntary cultivation of hatchery fish to support wild Atlantic salmon (*Salmo salar*) populations in Norway, Wales and Germany. *Fisheries Research*, 204, 348-360. doi:10.1016/j.fishres.2018.02.022
- Hartmann, J. F., Gentz, T., Schiller, A., Greule, M., Grossart, H.-P., Ionescu, D., . . . Isenbeck-Schröter, M. (2018). A fast and sensitive method for the continuous in situ determination of dissolved methane and its delta 13C-isotope ratio in surface waters. *Limnology and Oceanography : Methods*, 16(5), 273-285. doi:10.1002/lom3.10244
- He, F., Bremerich, V., Zarfl, C., Geldmann, J., Langhans, S. D., David, J. N. W., . . . Jähnig, S. C. (2018). Freshwater megafauna diversity: patterns, status and threats. *Diversity and Distributions*, 24(10), 1395-1404. doi:10.1111/ddi.12780
- Heeger, F., Bourne, E. C., Baschien, C., Yurkov, A., Bunk, B., Spröer, C., . . . Monaghan, M. T. (2018). Long-read DNA metabarcoding of ribosomal RNA in the analysis of fungi from aquatic environments. *Molecular Ecology Resources*, 18(6), 1500-1514. doi:10.1111/1755-0998.12937
- Heinz, M., & Zak, D. (2018). Storage effects on quantity and composition of dissolved organic carbon and nitrogen of lake water, leaf leachate and peat soil water. *Water Research*, 130, 98-104. doi:10.1016/j.watres.2017.11.053
- Herrero Ortega, S., Catalan, N., Björn, E., Grönroft, H., Hilmarsson, T. G., Bertilsson, S., . . . Bravo, A. G. (2018). High methylmercury formation in ponds fueled by fresh humic and algal derived organic matter. *Limnology and Oceanography*, 63(S1), S44-S53. doi:10.1002/lno.10722
- Hilt, S., Alirangues Nunez, M. M., Bakker, E. S., Blindow, I., Davidson, T. A., Gillefalk, M., . . . Sayer, C. D. (2018). Response of submerged macrophyte communities to external and internal restoration measures in north temperate shallow lakes. *Frontiers in Plant Science*, 9, 194. doi:10.3389/fpls.2018.00194
- Hjalmarsson, A. E., Graf, W., Jähnig, S. C., Vitecek, S., & Pauls, S. U. (2018). Molecular association and morphological characterisation of Himalopsche larval types (Trichoptera, Rhyacophilidae). *ZooKeys*(773), 79-108. doi:10.3897/zookeys.773.24319
- Hupfer, M., Engesgaard, P., Jensen, H. S., Krause, S., & Nützmann, G. (2018). Aquatic interfaces and linkages: an emerging topic of interdisciplinary research. *Limnologica*, 68, 1-4. doi:10.1016/j.limno.2017.12.002
- Hyder, K., Weltersbach, M. S., Armstrong, M., Ferter, K., Townhill, B., Ahvonen, A., . . . Strehlow, H. V. (2018). Recreational sea fishing in Europe in a global context - participation rates, fishing effort, expenditure, and implications for monitoring and assessment. *Fish and Fisheries*, 19(2), 225-243. doi:10.1111/faf.12251
- Irving, K. S., Kuemmerlen, M., Kiesel, J., Kakouei, K., Domisch, S., & Jähnig, S. C. (2018). A high-resolution streamflow and hydrological metrics dataset for ecological modeling using a regression model. *Scientific Data*, 5, 180224. doi:10.1038/sdata.2018.224
- Jabiol, J., Cornut, J., Tlili, A., & Gessner, M. O. (2018). Interactive effects of dissolved nitrogen, phosphorus and litter chemistry on stream fungal decomposers. *FEMS Microbiology Ecology*, 94(10). doi:10.1093/femsec/fiy151
- Jacobs, A., Doran, C., Murray, D. S., Duffill Telsnig, J., Laskowski, K. L., Jones, N. A. R., . . . Praebel, K. (2018). On the challenges and opportunities facing fish biology: a discussion of five key knowledge gaps. *Journal of Fish Biology*, 92(3), 690-698. doi:10.1111/jfb.13545
- Jaric, I., Riepe, C., & Geßner, J. (2018). Sturgeon and paddlefish life history and management: experts' knowledge and beliefs. *Journal of Applied Ichthyology*, 34(2), 244-257. doi:10.1111/jai.13563
- Jechow, A., Ribas, S. J., Domingo, R. C., Höller, F., Kollath, Z., & Kyba, C. C. M. (2018). Tracking the dynamics of skylight with differential photometry using a digital camera with fisheye lens. *Journal of Quantitative Spectroscopy & Radiative Transfer*, 209, 212-223. doi:10.1016/j.jqsrt.2018.01.032
- Johnston, F. D., Allen, M. S., Beardmore, B., Riepe, C., Pagel, T., Hünn, D., & Arlinghaus, R. (2018). How ecological processes shape the outcomes of stock enhancement and harvest regulations in recreational fisheries. *Ecological Applications*, 28(8), 2033-2054. doi:10.1002/eap.1793
- Jolles, J. W., Laskowski, K. L., Boogert, N. J., & Manica, A. (2018). Repeatable group differences in the collective behaviour of stickleback shoals across ecological contexts. *Proceedings of the Royal Society of London : Ser. B, Biological Sciences*, 285(1872). doi:10.1098/rspb.2017.2629
- Kaiser, K., Oldorff, S., Breitbach, C., Kappler, C., Theuerkauf, M., Scharnweber, T., . . . Bens, O. (2018). A submerged pine forest from the early Holocene in the Mecklenburg Lake District, northern Germany. *Boreas*, 47(3), 910-925. doi:10.1111/bor.12314

- Kakouei, K., Kiesel, J., Domisch, S., Irving, K. S., Jähnig, S. C., & Kail, J. (2018). Projected effects of climate-change-induced flow alterations on stream macroinvertebrate abundances. *Ecology and Evolution*, 8(6), 3393-3409. doi:10.1002/ece3.3907
- Kasprzak, P., Gonsiorczyk, T., Grossart, H.-P., Hupfer, M., Koschel, R., Petzoldt, T., & Wauer, G. (2018). Restoration of a eutrophic hard-water lake by applying an optimised dosage of poly-aluminium chloride (PAC). *Limnologica*, 70, 33-48. doi:10.1016/j.limno.2018.04.002
- Kazanjian, G., Flury, S., Attermeyer, K., Kalettka, T., Kleeberg, A., Premke, K., ... Hilt, S. (2018). Primary production in nutrient-rich kettle holes and consequences for nutrient and carbon cycling. *Hydrobiologia*, 806(1), 77-93. doi:10.1007/s10750-017-3337-6
- Kazanjian, G., Velthuis, M., Aben, R. C. H., Stephan, S., Peeters, E. T. H. M., Frenken, T., ... Hilt, S. (2018). Impacts of warming on top-down and bottom-up controls of periphyton production. *Scientific Reports*, 8(1), 9901. doi:10.1038/s41598-018-26348-x
- Knopf, K., Buschmann, K., Hansel, M., Radinger, J., & Kloas, W. (2018). Flash photography does not induce stress in the Ram cichlid *Mikrogeophagus ramirezi* (Myers & Harry, 1948) in aquaria. *Journal of Applied Ichthyology*, 34(4), 922-928. doi:10.1111/jai.13673
- Köhler, J., Wang, L., Guislain, A., & Shatwell, T. (2018). Influence of vertical mixing on light-dependency of phytoplankton growth. *Limnology and Oceanography*, 63(3), 1156-1167. doi:10.1002/lno.10761
- Kohlmann, K., Kersten, P., Geßner, J., Eroglu, O., Firidin, S., Ciorpac, M., ... Suciu, R. (2018). Validation of 12 species-specific, tetrasomic microsatellite loci from the Russian sturgeon, *Acipenser gueldenstaedtii*, for genetic broodstock management. *Aquaculture International*, 26(6), 1365-1376. doi:/10.1007/s10499-018-0290-y
- Krause, J., & Seebacher, F. (2018). Collective behaviour: physiology determines position. *Current Biology*, 28(8), R351-R354. doi:10.1016/j.cub.2018.02.070
- Kuppel, S., Tetzlaff, D., Maneta, M. P., & Soulsby, C. (2018). EcH2O-iso 1.0: water isotopes and age tracking in a process-based, distributed ecohydrological model. *Geoscientific Model Development*, 11(7), 3045-3069. doi:10.5194/gmd-11-3045-2018
- Kuppel, S., Tetzlaff, D., Maneta, M. P., & Soulsby, C. (2018). What can we learn from multi-data calibration of a process-based ecohydrological model? *Environmental Modelling & Software*, 101, 301-316. doi:10.1016/j.envsoft.2018.01.001
- Kurvers, R. H. J. M., Drägstein, J., Höller, F., Jechow, A., Krause, J., & Bierbach, D. (2018). Artificial light at night affects emergence from a refuge and space use in guppies. *Scientific Reports*, 8(1), 14131. doi:10.1038/s41598-018-32466-3
- Kurvers, R. H. J. M., & Wolf, M. (2018). Identification of acutely sick people: individual differences and social information use. *Proceedings of the Royal Society of London : Ser. B, Biological Sciences*, 285(1889). doi:10.1098/rspb.2018.1274
- Ladwig, R., Furusato, E., Kirillin, G., Hinkelmann, R., & Hupfer, M. (2018). Climate change demands adaptive management of urban lakes: model-based assessment of management scenarios for Lake Tegel (Berlin, Germany). *Water*, 10(2). doi:10.3390/w10020186
- Lau, M. P., Niederdorfer, R., Sepulveda-Jauregui, A., & Hupfer, M. (2018). Synthesizing redox biogeochemistry at aquatic interfaces. *Limnologica*, 68, 59-70. doi:10.1016/j.limno.2017.08.001
- Leach, T. H., Beisner, B. E., Carey, C. C., Pernica, P., Rose, K. C., Huot, Y., ... Verburg, P. (2018). Patterns and drivers of deep chlorophyll maxima structure in 100 lakes: the relative importance of light and thermal stratification. *Limnology and Oceanography*, 63(2), 628-646. doi:10.1002/lno.10656
- Legett, H. D., Baranov, V. A., & Bernal, X. E. (2018). Seasonal variation in abundance and diversity of eavesdropping frog-biting midges (Diptera, Corethrellidae) in a neotropical rainforest. *Ecological Entomology*, 43(2), 226-233. doi:10.1111/een.12492
- Lenz, S., Grünert, U., Geist, J., Stiefel, M., Lentz, M., & Raeder, U. (2018). Calcite production by the calcifying green alga *Phacotus lenticularis*. *Journal of Limnology*, 77(2), 209-219. doi:10.4081/jlimnol.2018.1692
- Li, Y., Rall, B. C., & Kalinkat, G. (2018). Experimental duration and predator satiation levels systematically affect functional response parameters. *Oikos*, 127(4), 590-598. doi:10.1111/oik.04479
- Lieke, T., Zhang, X., Steinberg, C. E. W., & Pan, B. (2018). Overlooked risks of biochars: persistent free radicals trigger neurotoxicity in *Caenorhabditis elegans*. *Environmental Science and Technology*, 52(14), 7981-7987. doi:10.1021/acs.est.8b01338
- Linzmaier, S. M., Goebel, L. S., Ruland, F., & Jeschke, J. M. (2018). Behavioral differences in an over-invasion scenario: marbled vs. spiny-cheek crayfish. *Ecosphere*, 9(9). doi:10.1002/ecs2.2385
- Linzmaier, S. M., Twardochleb, L. A., Olden, J. D., Mehner, T., & Arlinghaus, R. (2018). Size-dependent foraging niches of European Perch *Perca fluviatilis* (Linnaeus, 1758) and North American Yellow Perch *Perca flavescens* (Mitchill, 1814). *Environmental Biology of Fishes*, 101(1), 23-37. doi:10.1007/s10641-017-0678-y

- Lokatis, S., & Jeschke, J. M. (2018). The island rule: an assessment of biases and research trends. *Journal of Biogeography*, 45(2), 289-303. doi:10.1111/jbi.13160
- López, G. A., Hinegk, L., Salvadore, A., Zolezzi, G., Höller, F., Monte Domecq S, R. A., . . . Toffolon, M. (2018). Eutrophication, research and management history of the shallow Ypacaraí Lake (Paraguay). *Sustainability*, 10(7), 2426. doi:10.3390/su10072426
- Lorenz, C., Krüger, A., Schöning, V., & Lutz, I. (2018). The progestin norethisterone affects thyroid hormone-dependent metamorphosis of *Xenopus laevis* tadpoles at environmentally relevant concentrations. *Ecotoxicology and Environmental Safety*, 150, 86-95. doi:10.1016/j.ecoenv.2017.12.022
- Lorenzo, M. R., Iniguez, C., Egge, J. K., Larsen, A., Berger, S. A., Garcia-Gomez, C., & Segovia, M. (2018). Increased CO₂ and iron availability effects on carbon assimilation and calcification on the formation of *Emiliania huxleyi* blooms in a coastal phytoplankton community. *Environmental and Experimental Botany*, 148, 47-58. doi:10.1016/j.envexpbot.2017.12.003
- Lu, Y., Johnston, P. R., Dennis, S. R., Monaghan, M. T., John, U., Spaak, P., & Wolinska, J. (2018). Daphnia galeata responds to the exposure to an ichthyosporean gut parasite by down-regulation of immunity and lipid metabolism. *BMC Genomics*, 19(1), 932. doi:10.1186/s12864-018-5312-7
- Maasri, A., Hayford, B., Erdenee, B., & Gelhaus, J. K. (2018). Macroscale drivers influencing the structural and functional organization of stream macroinvertebrate metacommunities: potential role of hydrological connectivity. *Freshwater Science*, 37(1), 159-168. doi:10.1086/695945
- Machado, A. A. d. S., Kloas, W., Zarfl, C., Hempel, S., & Rillig, M. C. (2018). Microplastics as an emerging threat to terrestrial ecosystems. *Global Change Biology*, 24(4), 1405-1416. doi:10.1111/gcb.14020
- Machado, A. A. d. S., Lau, C. W., Till, J., Kloas, W., Lehmann, A., Becker, R., & Rillig, M. C. (2018). Impacts of microplastics on the soil biophysical environment. *Environmental Science and Technology*, 52(17), 9656-9665. doi:10.1021/acs.est.8b02212
- Machado, A. A. d. S., Spencer, K. L., Zarfl, C., & O'Shea, F. T. (2018). Unravelling metal mobility under complex contaminant signatures. *Science of the Total Environment*, 622-623, 373-384. doi:10.1016/j.scitotenv.2017.11.239
- Maneta, M. P., Soulsby, C., Kuppel, S., & Tetzlaff, D. (2018). Conceptualizing catchment storage dynamics and nonlinearities. *Hydrological Processes*, 32(21), 3299-3303. doi:10.1002/hyp.13262
- Manfrin, A., Larsen, S., Scalici, M., Wuertz, S., & Monaghan, M. T. (2018). Stress response of *Chironomus riparius* to changes in water temperature and oxygen concentration in a lowland stream. *Ecological Indicators*, 95, 720-725. doi:10.1016/j.ecolind.2018.08.015
- Manfrin, A., Lehmann, D., Van Grunsven, R. H. A., Larsen, S., Syväraanta, J., Wharton, G., . . . Höller, F. (2018). Dietary changes in predators and scavengers in a nocturnally illuminated riparian ecosystem. *Oikos*, 127(7), 960-969. doi:10.1111/oik.04696
- Mantzouki, E., Lürling, M., Fastner, J., De Senerpont Domis, L. N., Wilk-Wozniak, E., Koreiviene, J., . . . Ibelings, B. W. (2018). Temperature effects explain continental scale distribution of cyanobacterial toxins. *Toxins*, 10(4). doi:10.3390/toxins10040156
- Marini, S., Fanelli, E., Sbragaglia, V., Azzurro, E., Del Rio Fernandez, J., & Aguzzi, J. (2018). Tracking fish abundance by underwater image recognition. *Scientific Reports*, 8(1), 13748. doi:10.1038/s41598-018-32089-8
- Marruedo Arricibita, A. I., Dugdale, S. J., Krause, S., Hannah, D. M., & Lewandowski, J. (2018). Thermal infrared imaging for the detection of relatively warm lacustrine groundwater discharge at the surface of freshwater bodies. *Journal of Hydrology*, 562, 281-289. doi:10.1016/j.jhydrol.2018.05.004
- Marruedo Arricibita, A. I., Krause, S., Gomez-Velez, J., Hannah, D. M., & Lewandowski, J. (2018). Mesocosm experiments identifying hotspots of groundwater upwelling in a water column by fibre optic distributed temperature sensing. *Hydrological Processes*, 32(2), 185-199. doi:10.1002/hyp.11403
- Marshall, J. C., Acuna, V., Allen, D. C., Bonada, N., Boulton, A. J., Carlson, S. M., . . . Vander Vorste, R. (2018). Protecting U.S. temporary waterways. *Science*, 361(6405), 856-857. doi:10.1126/science.aav0839
- Martinez-Cruz, K. C., Sepulveda-Jauregui, A., Casper, P., Walter Anthony, K. M., Smemo, K. A., & Thalasso, F. (2018). Ubiquitous and significant anaerobic oxidation of methane in freshwater lake sediments. *Water Research*, 144, 332-340. doi:10.1016/j.watres.2018.07.053
- Masese, F. O., Abrantes, K. G., Gettel, G. M., Irvine, K., Bouillon, S., & McClain, M. E. (2018). Trophic structure of an African savanna river and organic matter inputs by large terrestrial herbivores: a stable isotope approach. *Freshwater Biology*, 63(11), 1365-1380. doi:10.1111/fwb.13163
- McAdam, S. O., Crossman, J. A., Williamson, C., St-Onge, I., Dion, R., Manny, B. A., & Geßner, J. (2018). If you build it, will they come?: Spawning habitat remediation for sturgeon. *Journal of Applied Ichthyology*. doi:0.1111/jai.13566

- Mehner, T., Lischke, B., Scharnweber, K., Attermeyer, K., Brothers, S. M., Gaedke, U., ... Brucet, S. (2018). Empirical correspondence between trophic transfer efficiency in freshwater food webs and the slope of their size spectra. *Ecology*, 99(6), 1463-1472. doi:10.1002/ecy.2347
- Mehner, T., Pohlmann, K., Bittner, D., & Freyhof, J. (2018). Testing the devil's impact on southern Baltic and North Sea basins whitefish (*Coregonus* spp.) diversity. *BMC Evolutionary Biology*, 18(1), 208. doi:10.1186/s12862-018-1339-2
- Meinikmann, K., Hupfer, M., Nützmann, G., & Lewandowski, J. (2018). Grundwasser als Quelle für die Phosphor-Belastung des Arendsees: Stellungnahme zur Publikation von Hannappel, Köpp & Rejman-Rasisnska mit dem Titel "Aufklärung der Ursachen zur Phosphorbelastung des oberflächennahen Grundwassers im hydraulischen Zustrom zum Arendsee in der Altmark" in Hydrologie & Wasserbewirtschaftung, 62, (1), 25-38; DOI: 10.5675/HyWa_2018,1_2. Hydrologie und Wasserbewirtschaftung.
- Mennen, G. J., & Laskowski, K. L. (2018). Defence is the best offence: invasive prey behaviour is more important than native predator behaviour. *Animal Behaviour*, 138, 157-164. doi:10.1016/j.anbehav.2018.02.017
- Monk, C. T., & Arlinghaus, R. (2018). Eurasian perch, *Perca fluviatilis*, spatial behaviour determines vulnerability independent of angler skill in a whole-lake reality mining experiment. *Canadian Journal of Fisheries and Aquatic Sciences*, 75(3), 417-428. doi:10.1139/cjfas-2017-0029
- Monk, C. T., Barbier, M., Romanczuk, P., Watson, J. R., Alos, J., Nakayama, S., ... Arlinghaus, R. (2018). How ecology shapes exploitation: a framework to predict the behavioural response of human and animal foragers along exploration-exploitation trade-offs. *Ecology Letters*, 21(6), 779-793. doi:10.1111/ele.12949
- Mueller, J. C., Kuhl, H., Boerno, S., Tella, J. L., Carrete, M., & Kempenaers, B. (2018). Evolution of genomic variation in the burrowing owl in response to recent colonization of urban areas. *Proceedings of the Royal Society of London : Ser. B, Biological Sciences*, 285(1878). doi:10.1098/rspb.2018.0206
- Mühlenbruch, M., Grossart, H.-P., Eigemann, F., & Voss, M. (2018). Mini review: phytoplankton-derived polysaccharides in the marine environment and their interactions with heterotrophic bacteria. *Environmental Microbiology*, 20(8), 2671-2685. doi:10.1111/1462-2920.14302
- Nakayama, S., Doering-Arjes, P., Linzmaier, S. M., Briege, J., Klefoth, T., Pieterik, T., & Arlinghaus, R. (2018). Fine-scale movement ecology of a freshwater top predator, Eurasian perch (*Perca fluviatilis*), in response to the abiotic environment over the course of a year. *Ecology of Freshwater Fish*, 27(3), 798-812. doi:10.1111/eff.12393
- Neill, A. J., Tetzlaff, D., Strachan, N. J. C., Hough, R. L., Avery, L. M., Watson, H., & Soulsby, C. (2018). Using spatial-stream-network models and long-term data to understand and predict dynamics of faecal contamination in a mixed land-use catchment. *Science of the Total Environment*, 612, 840-852. doi:10.1016/j.scitotenv.2017.08.151
- Nilsson, R. H., Taylor, A. F. S., Adams, R. I., Baschien, C., Bengtsson-Palme, J., Cangren, P., ... Abarenkov, K. (2018). Taxonomic annotation of public fungal ITS sequences from the built environment: a report from an April 10-11, 2017 workshop (Aberdeen, UK). MycoKeys(28), 65-82. doi:10.3897/mycokeys.28.20887
- Onandia, G., Lischeid, G., Kaletta, T., Kleeberg, A., Omari, M., Premke, K., & Arhonditsis, G. B. (2018). Biogeochemistry of natural ponds in agricultural landscape: lessons learned from modeling a kettle hole in Northeast Germany. *Science of the Total Environment*, 634, 1615-1630. doi:10.1016/j.scitotenv.2018.04.014
- Ordines, F., Deudero, S., Sintes-Vila, J., Sbragaglia, V., Fricke, R., & Azzurro, E. (2018). A new record of *Diodon hystrix* (Actinopterygii: Tetraodontiformes: Diodontidae) in the Mediterranean Sea. *Acta Ichthyologica et Piscatoria*, 48(4), 403-407. doi:10.3750/AIEP/02440
- Özulug, M., Geiger, M. F., & Freyhof, J. (2018). *Alburnus goekhani*, a new species of bleak from the Anatolian Black Sea basin (Teleostei: Leuciscidae). *Zootaxa*, 4425(1), 29-40. doi:10.11646/zootaxa.4425.1.2
- Pauchard, A., Meyerson, L. A., Bacher, S., Blackburn, T. M., Brundu, G., Cadotte, M. W., ... Winter, M. (2018). Biodiversity assessments: origin matters. *PLoS Biology*, 16(11), e2006686. doi:10.1371/journal.pbio.2006686
- Pei, Y., Liu, L., Hilt, S., Xu, R., Wang, B., Li, C., & Chang, X. (2018). Root exudated algicide of *Eichhornia crassipes* enhances allelopathic effects of cyanobacteria *Microcystis aeruginosa* on green algae. *Hydrobiologia*, 823(1), 67-77. doi:10.1007/s10750-018-3696-7
- Peralta-Maraver, I., Galloway, J., Posselt, M., Arnon, S., Reiss, J., Lewandowski, J., & Robertson, A. L. (2018). Environmental filtering and community delineation in the streambed ecotone. *Scientific Reports*, 8(1), 15871. doi:10.1038/s41598-018-34206-z
- Perez Rocha, M., Bini, L. M., Domisch, S., Tolonen, K. T., Jyrkäkallio-Mikkola, J., Soininen, J., ... Heino, J. (2018). Local environment and space drive multiple facets of stream macroinvertebrate beta diversity. *Journal of Biogeography*, 45(12), 2744-2754. doi:10.1111/jbi.13457

- Perillon, C., Van de Weyer, K., Pätzolt, J., Kasprzak, P., & Hilt, S. (2018). Changes in submerged macrophyte colonization in shallow areas of an oligo-mesotrophic lake and the potential role of groundwater. *Limnologica*, 68, 168-176. doi:10.1016/j.limno.2017.03.002
- Pichler, A., Ahnelt, H., Kirchner, S., Sattmann, H., Haring, E., Handschuh, S., ... Kruckenhauser, L. (2018). The morphological diversity of *Garra barreimiae* [Teleostei: Cyprinidae]. *Environmental Biology of Fishes*, 101(6), 1053-1065. doi:10.1007/s10641-018-0758-7
- Piovano, T. I., Tetzlaff, D., Ala-Aho, P., Buttle, J., Mitchell, C. P. J., & Soulsby, C. (2018). Testing a spatially distributed tracer-aided runoff model in a snow-influenced catchment: effects of multicriteria calibration on streamwater ages. *Hydrological Processes*, 32(20), 3089-3107. doi:10.1002/hyp.13238
- Pita, P., Villasante, S., Arlinghaus, R., Gomes, P., Strehlow, H. V., Veiga, P., ... Hyder, K. (2018). A matter of scales: does the management of marine recreational fisheries follow the ecosystem approach to fisheries in Europe? *Marine Policy*.
- Podschun, S. A., Thiele, J., Dehnhardt, A., Mehl, D., Hoffmann, T. G., Albert, C., ... Pusch, M. T. (2018). Das Konzept der Ökosystemleistungen - eine Chance für integratives Gewässermanagement. *Hydrologie und Wasserbewirtschaftung*.
- Polverino, G., Santostefano, F., Diaz-Gil, C., & Mehner, T. (2018). Ecological conditions drive pace-of-life syndromes by shaping relationships between life history, physiology and behaviour in two populations of Eastern mosquitofish. *Scientific Reports*, 8(1), 14673. doi:10.1038/s41598-018-33047-0
- Pöschke, F., Nützmann, G., Engesgaard, P., & Lewandowski, J. (2018). How does the groundwater influence the water balance of a lowland lake?: A field study from Lake Stechlin, north-eastern Germany. *Limnologica*, 68, 17-25. doi:10.1016/j.limno.2017.11.005
- Posselt, M., Jäger, A., Schaper, J. L., Radke, M., & Benskin, J. P. (2018). Determination of polar organic micropollutants in surface and pore water by high-resolution sampling-direct injection-ultra high performance liquid chromatography-tandem mass spectrometry. *Environmental Science : Process & Impacts*, 20(12), 1716-1727. doi:10.1039/C8EM00390D
- Pröschold, T., Darienko, T., Krienitz, L., & Coleman, A. W. (2018). *Chlamydomonas schloesseri* sp. nov. (Chlamydophyceae, Chlorophyta) revealed by morphology, autolysin cross experiments, and multiple gene analyses. *Phytotaxa*, 362(1), 21-38. doi:10.11646/phytotaxa.362.1.2
- Radinger, J., Höller, F., Horky, P., Slavik, O., & Wolter, C. (2018). Improved river continuity facilitates fishes' abilities to track future environmental changes. *Journal of Environmental Management*, 208, 169-179. doi:10.1016/j.jenvman.2017.12.011
- Rehse, S., Kloas, W., & Zarfl, C. (2018). Microplastics reduce short-term effects of environmental contaminants: Part I: Effects of bisphenol A on freshwater zooplankton are lower in presence of polyamide particles. *International Journal of Environmental Research and Public Health*, 15(2). doi:10.3390/ijerph15020280
- Reverey, F., Ganzert, L., Lischeid, G., Ulrich, A., Premke, K., & Grossart, H.-P. (2018). Dry-wet cycles of kettle hole sediments leave a microbial and biogeochemical legacy. *Science of the Total Environment*, 627, 985-996. doi:10.1016/j.scitotenv.2018.01.220
- Reyes Lastiri, D., Geelen, C., Cappon, H. J., Rijnaarts, H. H. M., Baganz, D., Kloas, W., ... Keesman, K. J. (2018). Model-based management strategy for resource efficient design and operation of an aquaponic system. *Aquacultural Engineering*, 83, 27-39. doi:10.1016/j.aquaeng.2018.07.001
- Richardson, J., Miller, C., Maberly, S. C., Taylor, P., Globvnik, L., Hunter, P., ... Carvalho, L. (2018). Effects of multiple stressors on cyanobacteria abundance vary with lake type. *Global Change Biology*, 24(11), 5044-5055. doi:10.1111/gcb.14396
- Riesch, R., Plath, M., & Bierbach, D. (2018). Ecology and evolution along environmental gradients: editorial. *Current Zoology*, 64(2), 193-196. doi:10.1093/cz/zoy015
- Rodriguez, M., & Casper, P. (2018). Greenhouse gas emissions from a semi-arid tropical reservoir in northeastern Brazil. *Regional Environmental Change*, 18(7), 1901-1912. doi:10.1007/s10113-018-1289-7
- Rodriguez, M., Gonsiorczyk, T., & Casper, P. (2018). Methane production increases with warming and carbon additions to incubated sediments from a semiarid reservoir. *Inland Waters*, 8(1), 109-121. doi:10.1080/20442041.2018.1429986
- Rotllant, G., Nguyen, T. V., Hurwood, D., Sbragaglia, V., Ventura, T., Company, J. B., ... Mather, P. B. (2018). Evaluation of genes involved in Norway lobster (*Nephrops norvegicus*) female sexual maturation using transcriptomic analysis. *Hydrobiologia*, 825(1), 137-158. doi:10.1007/s10750-018-3521-3
- Sanchez-Montoya, M. d. M., Von Schiller, D., Barbera, G. G., Diaz, A. M., Arce, M. I., Del Campo, R., & Tockner, K. (2018). Understanding the effects of predictability, duration, and spatial pattern of drying on benthic invertebrate assemblages in two contrasting intermittent streams. *PLoS One*, 13(3), e0193933. doi:10.1371/journal.pone.0193933
- Sbragaglia, V., Morroni, L., Bramanti, L., Weitzmann, B., Arlinghaus, R., & Azzurro, E. (2018). Spearfishing modulates flight initiation distance of fishes: the effects of protection, individual size, and bearing a speargun. *ICES Journal of Marine Science*, 75(5), 1779-1789. doi:10.1093/icesjms/fsy059

- Schäfer, F. J., Overton, J. L., Kloas, W., & Wuertz, S. (2018). Length rather than year-round spawning affects reproductive performance of RAS-reared F-generation pikeperch, *Sander lucioperca* (Linnaeus, 1758): insights from practice. *Journal of Applied Ichthyology*, 34(3), 617-621. doi:10.1111/jai.13628
- Schäfer, F. J., Overton, J. L., Krüger, A., Kloas, W., & Wuertz, S. (2018). Influence of batch-specific biochemical egg characteristics on embryogenesis and hatching success in farmed pikeperch. *Animal*, 12(11), 2327-2334. doi:10.1017/S1751731117003202
- Schaper, J. L., Posselt, M., McCallum, J. L., Banks, E. W., Höhne, A., Meinikmann, K., ... Lewandowski, J. (2018). Hyporheic exchange controls fate of trace organic compounds in an urban stream. *Environmental Science and Technology*. doi:10.1021/acs.est.8b03117
- Schaper, J. L., Seher, W., Nützmann, G., Putschew, A., Jekel, M., & Lewandowski, J. (2018). The fate of polar trace organic compounds in the hyporheic zone. *Water Research*, 140, 158-166. doi:10.1016/j.watres.2018.04.040
- Scheliga, B., Tetzlaff, D., Nützmann, G., & Soulsby, C. (2018). Groundwater dynamics at the hillslope-riparian interface in a year with extreme winter rainfall. *Journal of Hydrology*, 564, 509-528. doi:10.1016/j.jhydrol.2018.06.082
- Schulze-Makuch, D., Wagner, D., Kounaves, S. P., Mangelsdorf, K., Devine, K. G., De Vera, J.-P., ... Zamorano, P. (2018). Transitory microbial habitat in the hyperarid Atacama Desert. *Proceedings of the National Academy of Sciences of the United States of America*, 115(11), 2670-2675. doi:10.1073/pnas.1714341115
- Schuurmans, J. M., Brinkmann, B. W., Makower, A. K., Dittmann, E., Huisman, J., & Matthijs, H. C. P. (2018). Microcystin interferes with defense against high oxidative stress in harmful cyanobacteria. *Harmful Algae*, 78, 47-55. doi:10.1016/j.hal.2018.07.008
- Seebens, H., Blackburn, T. M., Dyer, E. E., Genovesi, P., Hulme, P. E., Jeschke, J. M., ... Essl, F. (2018). Global rise in emerging alien species results from increased accessibility of new source pools. *Proceedings of the National Academy of Sciences of the United States of America*, 115(10), E2264-E2273. doi:10.1073/pnas.1719429115
- Sepulveda-Jauregui, A., Hoyos-Santillan, J., Martinez-Cruz, K. C., Walter Anthony, K. M., Casper, P., Belmonte-Izquierdo, Y., & Thalasso, F. (2018). Eutrophication exacerbates the impact of climate warming on lake methane emission. *Science of the Total Environment*, 636, 411-419. doi:10.1016/j.scitotenv.2018.04.283
- Sepulveda-Jauregui, A., Martinez-Cruz, K. C., Lau, M. P., & Casper, P. (2018). Assessment of methane and carbon dioxide emissions in two sub-basins of a small acidic bog lake artificially divided 30 years ago. *Freshwater Biology*, 63(12), 1534-1549. doi:10.1111/fwb.13182
- Serikova, S., Pokrovsky, O. S., Ala-Aho, P., Kazantsev, V., Kirpotin, S. N., Kopysov, S. G., ... Karlsson, J. (2018). High riverine CO₂ emission at the permafrost boundary of Western Siberia. *Nature Geoscience*, 11(11), 825--. doi:10.1038/s41561-018-0218-1
- Shelton, D. S., & Alberts, J. R. (2018). Development of behavioral responses to thermal challenges. *Developmental Psychobiology*, 60(1), 5-14. doi:10.1002/dev.21588
- Smith, A. A., Tetzlaff, D., & Soulsby, C. (2018). On the use of StorAge selection functions to assess time-variant travel times in lakes. *Water Resources Research*, 54(7), 5163-5185. doi:10.1029/2017WR021242
- Sprenger, M., Tetzlaff, D., Buttle, J., Carey, S. K., McNamara, J. P., Laudon, H., ... Soulsby, C. (2018). Storage, mixing, and fluxes of water in the critical zone across northern environments inferred by stable isotopes of soil water. *Hydrological Processes*, 32(12), 1720-1737. doi:10.1002/hyp.13135
- Sprenger, M., Tetzlaff, D., Buttle, J., Laudon, H., Leistert, H., Mitchell, C. P. J., ... Soulsby, C. (2018). Measuring and modeling stable isotopes of mobile and bulk soil water. *Vadose Zone Journal*, 17(1). doi:10.2136/vzj2017.08.0149
- Sprenger, M., Tetzlaff, D., Buttle, J., Laudon, H., & Soulsby, C. (2018). Water ages in the critical zone of long-term experimental sites in northern latitudes. *Hydrology and Earth System Sciences*, 22(7), 3965-3981. doi:10.5194/hess-22-3965-2018
- Stief, P., Lundgaard, A. S. B., Treusch, A. H., Thamdrup, B., Grossart, H.-P., & Glud, R. N. (2018). Freshwater copepod carcasses as pelagic microsites of dissimilatory nitrate reduction to ammonium. *FEMS Microbiology Ecology*, 94(10). doi:10.1093/femsec/fiy144
- Straus, D. L., Meinelt, T., Liu, D., & Pedersen, L.-F. (2018). Toxicity of peracetic acid to fish: variation among species and impact of water chemistry. *Journal of the World Aquaculture Society*, 49(4), 715-724. doi:10.1111/jwas.12475
- Suhl, J., Dannehl, D., Baganz, D., Schmidt, U., & Kloas, W. (2018). An innovative suction filter device reduces nitrogen loss in double recirculating aquaponic systems. *Aquacultural Engineering*, 82, 63-72. doi:10.1016/j.aquaeng.2018.06.008
- Taube, R., Ganzert, L., Grossart, H.-P., Gleixner, G., & Premke, K. (2018). Organic matter quality structures benthic fatty acid patterns and the abundance of fungi and bacteria in temperate lakes. *Science of the Total Environment*, 610-611, 469-481. doi:10.1016/j.scitotenv.2017.07.256

- Tetzlaff, D., Piovano, T. I., Ala-Aho, P., Smith, A. A., Carey, S. K., Marsh, P., . . . Soulsby, C. (2018). Using stable isotopes to estimate travel times in a data-sparse Arctic catchment: challenges and possible solutions. *Hydrological Processes*, 32(12), 1936-1952. doi:10.1002/hyp.13146
- Trochine, C., Brucet, S., Argillier, C., Arranz, I., Beklioglu, M., Benejam, L., . . . Mehner, T. (2018). Non-native fish occurrence and biomass in 1943 Western Palearctic lakes and reservoirs and their abiotic and biotic correlates. *Ecosystems*, 21(3), 395-409. doi:10.1007/s10021-017-0156-6
- Tump, A. N., Wolf, M., Krause, J., & Kurvers, R. H. J. M. (2018). Individuals fail to reap the collective benefits of diversity because of over-reliance on personal information. *Journal of the Royal Society Interface*, 15(142). doi:10.1098/rsif.2018.0155
- Tunaley, C., Tetzlaff, D., Wang, H., & Soulsby, C. (2018). Spatio-temporal diel DOC cycles in a wet, low energy, northern catchment: highlighting and questioning the sub-daily rhythms of catchment functioning. *Journal of Hydrology*, 563, 962-974. doi:10.1016/j.jhydrol.2018.06.056
- Turan, D., Kaya, C., Geiger, M. F., & Freyhof, J. (2018). Barbus anatolicus, a new barbel from the Kizihrmak and Yesihrmak River drainages in northern Anatolia (Teleostei: Cyprinidae). *Zootaxa*, 4461(4), 539-557. doi:10.11646/zootaxa.4461.4.5
- Turko, P., Tellenbach, C., Keller, E., Tardent, N., Keller, B., Spaak, P., & Wolinska, J. (2018). Parasites driving host diversity: incidence of disease correlated with *Daphnia* clonal turnover. *Evolution*, 72(3), 619-629. doi:10.1111/evo.13413
- Tydecks, L., Jeschke, J. M., Wolf, M., Singer, G. A., & Tockner, K. (2018). Spatial and topical imbalances in biodiversity research. *PLoS One*, 13(7), e0199327. doi:10.1371/journal.pone.0199327
- Ulseth, A. J., Bertuzzo, E., Singer, G. A., Schelker, J., & Battin, T. J. (2018). Climate-induced changes in spring snowmelt impact ecosystem metabolism and carbon fluxes in an Alpine stream network. *Ecosystems*, 21(2), 373-390. doi:10.1007/s10021-017-0155-7
- Usui-Heikkilä, S., Bierbach, D., Alos, J., Tscheligi, P., Wolter, C., & Arlinghaus, R. (2018). Relatively large males lower reproductive success in female zebrafish. *Environmental Biology of Fishes*, 101(11), 1625-1638. doi:10.1007/s10641-018-0808-1
- Van den Wyngaert, S., Rojas-Jimenez, K., Seto, K., Kagami, M., & Grossart, H.-P. (2018). Diversity and hidden host specificity of chytrids infecting colonial volvocacean algae. *Journal of Eukaryotic Microbiology*, 65(6), 870-881. doi:10.1111/jeu.12632
- Van Grunsven, R. H. A., Jähnichen, D., Grubisic, M., & Höller, F. (2018). Slugs (Arionidae) benefit from nocturnal artificial illumination. *Journal of Experimental Zoology*, 329(8-9), 429-433. doi:10.1002/jez.2170
- Van Langevelde, F., Braamburg-Annegarn, M., Huigens, M. E., Groendijk, R., Poitvin, O., Van Deijk, J. R., . . . WallisDeVries, M. F. (2018). Declines in moth populations stress the need for conserving dark nights. *Global Change Biology*, 24(3), 925-932. doi:10.1111/gcb.14008
- Vardeh, D. P., Woodhouse, J. N., & Neilan, B. A. (2018). Microbial diversity of speleothems in two Southeast Australian limestone cave arches. *Journal of Cave and Karst Studies*, 80(3), 121-132. doi:10.4311/2017MB0119
- Velthuis, M., Kosten, S., Aben, R. C. H., Kazanjian, G., Hilt, S., Peeters, E. T. H. M., . . . Bakker, E. S. (2018). Warming enhances sedimentation and decomposition of organic carbon in shallow macrophyte-dominated systems with zero net effect on carbon burial. *Global Change Biology*, 24(11), 5231-5242. doi:10.1111/gcb.14387
- Venohr, M., Langhans, S. D., Peters, O., Höller, F., Arlinghaus, R., Mitchell, L., & Wolter, C. (2018). The underestimated dynamics and impacts of water-based recreational activities on freshwater ecosystems. *Environmental Reviews*, 26(2), 199-213. doi:10.1139/er-2017-0024
- Vivas Munoz, J. C., Hilt, S., Horak, P., & Knopf, K. (2018). Impact of trematode infections on periphyton grazing rates of freshwater snails. *Parasitology Research*, 117(11), 3547-3555. doi:10.1007/s00436-018-6052-y
- Wang, H., Tetzlaff, D., & Soulsby, C. (2018). Modelling the effects of land cover and climate change on soil water partitioning in a boreal headwater catchment. *Journal of Hydrology*, 558, 520-531. doi:10.1016/j.jhydrol.2018.02.002
- Wanka, K. M., Damerau, T., Costas, B., Krüger, A., Schulz, C., & Wuertz, S. (2018). Isolation and characterization of native probiotics for fish farming. *BMC Microbiology*, 18(1), 119. doi:10.1186/s12866-018-1260-2
- Wanner, C., Pöthig, R., Carrero, S., Fernandez-Martinez, A., Jäger, C., & Furrer, G. (2018). Natural occurrence of nanocrystalline Al-hydroxysulfates: insights on formation, Al solubility control and As retention. *Geochimica et Cosmochimica Acta*, 238, 252-269. doi:10.1016/j.gca.2018.06.031
- Wen, X., Unger, V., Jurasiczki, G., Koebisch, F., Horn, F., Rehder, G., . . . Liebner, S. (2018). Predominance of methanogens over methanotrophs in rewetted fens characterized by high methane emissions. *Biogeosciences*, 15(21), 6519-6536. doi:10.5194/bg-15-6519-2018, 2018

Willis, A., Woodhouse, J. N., Ongley, S. E., Jex, A. R., Burford, M. A., & Neilan, B. A. (2018). Genome variation in nine co-occurring toxic *Cylindrospermopsis raciborskii* strains. *Harmful Algae*, 73, 157-166. doi:10.1016/j.hal.2018.03.001

Woodhouse, J. N., Ziegler, J., Grossart, H.-P., & Neilan, B. A. (2018). Cyanobacterial community composition and bacteria-bacteria interactions promote the stable occurrence of particle-associated bacteria. *Frontiers in Microbiology*, 9, 777. doi:10.3389/fmicb.2018.00777

Xu, Z., Woodhouse, J. N., Te, S. H., Yew-Hoong Gin, K., He, Y., Xu, C., & Chen, L. (2018). Seasonal variation in the bacterial community composition of a large estuarine reservoir and response to cyanobacterial proliferation. *Chemosphere*, 202, 576-585. doi:10.1016/j.chemosphere.2018.03.037

Yin, M., Wang, X., Ma, X., Gießler, S., Petrusek, A., Griebel, J., ... Wolinska, J. (2018). Cytonuclear diversity and shared mitochondrial haplotypes among *Daphnia galeata* populations separated by seven thousand kilometres. *BMC Evolutionary Biology*, 18(1), 130. doi:10.1186/s12862-018-1256-4

Yogurtcuoglu, B., & Freyhof, J. (2018). *Aphanius irregularis*, a new killifish from south-western Anatolia (Cyprinodontiformes: Aphaniidae). *Zootaxa*, 4410(2), 319-330. doi:10.11646/zootaxa.4410.2.4

Zajicek, P., Radinger, J., & Wolter, C. (2018). Disentangling multiple pressures on fish assemblages in large rivers. *Science of the Total Environment*, 627, 1093-1105. doi:10.1016/j.scitotenv.2018.01.307

Zajicek, P., & Wolter, C. (2018). The gain of additional sampling methods for the fish-based assessment of large rivers. *Fisheries Research*, 197, 15-24. doi:10.1016/j.fishres.2017.09.018

Zak, D., Goldhammer, T., Cabezas, A., Gelbrecht, J., Gurke, R., Wagner, C., ... McInnes, R. J. (2018). Top soil removal reduces water pollution from phosphorus and dissolved organic matter and lowers methane emissions from rewetted peatlands. *Journal of Applied Ecology*, 55(1), 311-320. doi:10.1111/1365-2664.12931

Zak, D., Kronvang, B., Carstensen, M. V., Hoffmann, C. C., Kjeldgaard, A., Larsen, S. E., ... Jensen, H. S. (2018). Nitrogen and phosphorus removal from agricultural runoff in integrated buffer zones. *Environmental Science and Technology*, 52(11), 6508-6517. doi:10.1021/acs.est.8b01036

Zhou, Y., Zhang, B., Stuart-Williams, H., Grice, K., Hocart, C. H., Gessler, A., ... Farquhar, G. D. (2018). On the contributions of photorespiration and compartmentation to the contrasting intramolecular 2H profiles of C3 and C4 plant sugars. *Phytochemistry*, 145, 197-206. doi:10.1016/j.phytochem.2017.11.004

Zhuang, G.-C., Heuer, V. B., Lazar, C. S., Goldhammer, T., Wendt, J., Samarkin, V. A., ... Hinrichs, K.-U. (2018). Relative importance of methylotrophic methanogenesis in sediments of the Western Mediterranean Sea. *Geochimica et Cosmochimica Acta*, 224, 171-186. doi:10.1016/j.gca.2017.12.024

Zlatanovic, S., Fabian, J., Premke, K., & Mutz, M. (2018). Shading and sediment structure effects on stream metabolism resistance and resilience to infrequent droughts. *Science of the Total Environment*, 621, 1233-1242. doi:10.1016/j.scitotenv.2017.10.105

Referierte Zeitschriftenbeiträge ohne Impact-Faktor

Bierbach, D., Lukas, J., Bergmann, A., Elsner, K., Höhne, L., Weber, C., ... Krause, J. (2018). Insights into the social behavior of surface and cave-dwelling fish (*Poecilia mexicana*) in light and darkness through the use of a biomimetic robot. *Frontiers in Robotics and AI*, 5. doi:10.3389/frobt.2018.00003

Dufresnes, C., Mazepa, G., Rodrigues, N., Breisford, A., Litvinchuk, S. N., Sermier, R., ... Jeffries, D. L. (2018). Formal description of the new tree frog species inhabiting Northern Italy and Southern Switzerland. *Bulletin de la Societe Vaudoise des Sciences Naturelles*.

Dufresnes, C., Mazepa, G., Rodrigues, N., Breisford, A., Litvinchuk, S. N., Sermier, R., ... Jeffries, D. L. (2018). Genomic evidence for cryptic speciation in tree frogs from the Apennine Peninsula, with description of *Hyla perrini* sp. nov. *Frontiers in Ecology and Evolution*, 6. doi:10.3389/fevo.2018.00144

Garcia, S. L., Buck, M., Hamilton, J. J., Wurzbacher, C. M., Grossart, H.-P., McMahon, K. D., & Eiler, A. (2018). Model communities hint at promiscuous metabolic linkages between ubiquitous free-living freshwater bacteria. *mSphere*, 3(3). doi:10.1128/mSphere.00202-18

Grubisic, M. (2018). Waters under artificial lights: does light pollution matter for aquatic primary producers. *Limnology and Oceanography Bulletin*, 27(3), 76-81. doi:10.1002/lob.10254

Hecker, S., Bonney, R., Haklay, M., Hölker, F., Hofer, H., Goebel, C., ... Bonn, A. (2018). Innovation in citizen science - perspectives on science-policy advances. *Citizen Science : Theory and Practice*, 3(1). doi:10.5334/cstp.114

Huth, V., Hoffmann, M., Bereswill, S., Popova, Y., Zak, D., & Augustin, J. (2018). The climate warming effect of a fen peat meadow with fluctuating water table is reduced by young alder trees. *Mires and Peat*, 21. doi: 10.19189/MaP.2017.OMB.291

Kohlmann, K., Ciorpac, M., Kersten, P., Suciu, R., Taflan, E., Tasic, K., ... Geßner, J. (2018). Development and assessment of a multiplex PCR assay for genetic analyses of microsatellite loci in beluga sturgeon, *Huso huso*. *Genetics of Aquatic Organisms*, 2(2). doi:10.4194/2459-1831-v2_2_02

Lukas, J., & Bierbach, D. (2018). Häufigkeit von (sub)tropischen Arten in thermisch-belasteten Gewässern in Deutschland und Konsequenzen für die lokale Biodiversität. BfN-Skripten.

Mantzouki, E., Beklioglu, M., Brookes, J. D., De Senerpont Domis, L. N., Dugan, H. A., Doubek, J. P., ... Ibelings, B. W. (2018). Snapshot surveys for lake monitoring, more than a shot in the dark. *Frontiers in Ecology and Evolution*, 6. doi:10.3389/fevo.2018.00201

Mantzouki, E., Campbell, J., Van Loon, E., Visser, P. M., Konstantinou, I., Antoniou, M., ... Ibelings, B. W. (2018). Data descriptor: a European multi lake survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. *Scientific Data*, 5, 180226. doi:10.1038/sdata.2018.226

Möckl, L., Evers, J., & Herzog, C. (2018). Von Kautschuk zu Metallen: ein Werkslabor mit Weltgeltung. *Nachrichten aus der Chemie*, 66(9), 892-895. doi:10.1002/hadc.20184076062

Ntislidou, C., Radea, C., Giokas, S., Pusch, M. T., Lazaridou, M., & Bobori, D. C. (2018). Rediscovery of the endemic gastropod *Dianella schlickumi* (Gastropoda, Hydrobiidae) and its discrimination from *Dianella thiesseana*: environmental correlates and implications for their conservation. *Nature Conservation*(27), 35-58. doi:10.3897/natureconservation.27.23289

Osman, A. G. M., AbouelFadl, K. Y., Abd El Reheem, A.-E.-B. M., Mahmoud, U. M., Kloas, W., & Moustafa, M. A. (2018). Blood biomarkers in Nile tilapia *Oreochromis niloticus* niloticus and African catfish *Clarias gariepinus* to evaluate water quality of the river Nile. *Journal of FisheriesSciences*.

Pusch, M. T., Podschun, S. A., Costea, G., Gelhaus, M., & Stammel, B. (2018). With RESI towards a more integrative management of large rivers and floodplains. *Danube News*.

Rabitsch, W., Heger, T., Jeschke, J. M., & Saul, W.-C. (2018). Priorisierung der Pfade nicht vorsätzlicher Einbringung und Ausbreitung invasiver gebietsfremder Arten in Deutschland. *Natur und Landschaft*. doi:10.17433/9.2018.50153617.416-422

Rose, K. C., Filstrup, C. T., Fink, P., Grossart, H.-P., & Salk, K. R. (2018). Life in transition: ASLO and early career scientists. *Limnology and Oceanography Bulletin*, 27(4), 133-135. doi:10.1002/lob.10276

Rumpold, B. A., Speckmann, H., Schlüter, O., Kloas, W., & Prochnow, A. (2018). Potentials of a biogenic residue-based production of *Hermetia illucens* as fish meal replacement in aquafeed for *Oncorhynchus mykiss* in Germany. *Journal of Insects as Food and Feed*, 4(1), 5-18. doi:10.3920/JIFF2016.0060

Rusak, J. A., Tanentzap, A. J., Klug, J. L., Rose, K. C., Hendricks, S. P., Jennings, E., ... Zhu, G. (2018). Wind and trophic status explain within and among-lake variability of algal biomass. *Limnology and Oceanography Letters*, 3(6), 409-418. doi:10.1002/lol2.10093

Shumilova, O., Tockner, K., Thieme, M., Koska, A., & Zarfl, C. (2018). Global water transfer megaprojects: a potential solution for the water-food-energy nexus? *Frontiers in Environmental Science*, 6. doi:10.3389/fenvs.2018.00150

Snijders, L., Kurvers, R. H. J. M., Krause, S., Ramnarine, I. W., & Krause, J. (2018). Individual- and population-level drivers of consistent foraging success across environments. *Nature Ecology & Evolution*, 2(10), 1610-1618. doi:10.1038/s41559-018-0658-4

Suhl, J., Dannehl, D., Zechmeister, L., Baganz, D., Kloas, W., Lehmann, B., ... Schmidt, U. (2018). Prospects and challenges of double recirculating aquaponic systems (DRAPS) for intensive plant production. *Acta Horticulturae*(1227), 449-456. doi:10.17660/ActaHortic.2018.1227.56

Teschlade, D., Niemann, A., Hering, D., & Radinger, J. (2018). Entwicklung eines GIS-basierten Modellansatzes zur Priorisierung von Querbauwerken bei der Umsetzung der Wasserrahmenrichtlinie. KW Korrespondenz Wasserwirtschaft.

Turnbull, L., Hütt, M.-T., Ioannides, A. A., Kinimonth, S., Poeppl, R., Tockner, K., ... Parsons, A. J. (2018). Connectivity and complex systems: learning from a multi-disciplinary perspective. *Applied Network Science*, 3(1). doi:10.1007/s41109-018-0067-2

Warren, W. C., Garcia-Perez, R., Xu, S., Lampert, K. P., Chalopin, D., Stöck, M., ... Schartl, M. (2018). Clonal polymorphism and high heterozygosity in the celibate genome of the Amazon molly. *Nature Ecology & Evolution*, 2(4), 669-679. doi:10.1038/s41559-018-0473-y

Wildner, M., & Beichler, S. A. (2018). Ökosystemleistungen von Flüssen und Auen - der River-System-Service-Index (RESI). *Forum der Geoökologie*.

Zimmer, C., Riesch, R., Jourdan, J., Bierbach, D., Arias-Rodriguez, L., & Plath, M. (2018). Female choice undermines the emergence of strong sexual isolation between locally adapted populations of atlantic mollies (*Poecilia mexicana*). *Genes*, 9(5). doi:10.3390/genes9050232

Nicht-referierte Zeitschriftenbeiträge

- Arlinghaus, R. (2018). Der Einheitsfang als praxisnahe Hilfsmittel zur Erfolgskontrolle von Hegemaßnahmen wie Besatz. Fischer und Angler(2), 25-28.
- Arlinghaus, R. (2018). Wirksamkeit von Fortbildungen zu Fischbesatz unter Anglern. Fischwaid(2), 18-21.
- Celino, I., Corcho, O., Hölker, F., & Simperl, E. (2018). Citizen science: design and engagement. Dagstuhl Reports, 7(7), 22-43.
- Fischer, C., Beichler, S. A., Damm, C., Foeckler, F., Gelhaus, M., Pusch, M. T., . . . Scholz, M. (2018). River Ecosystem Service Index (RESI) - Erfassung und Bewertung der Ökosystemleistung "Habitatbereitstellung". Artenschutzreport(38), 14-16
- Liu, D., Straus, D. L., Pedersen, L.-F., & Meinelt, T. (2018). Periodic bacterial control with peracetic acid in a recirculating aquaculture system and its long-term beneficial effect on fish health. Aquaculture, 485, 154-159. doi:10.1016/j.aquaculture.2017.11.050
- Lumsdon, A. E., Artamonov, I., Bruno, M. C., Righetti, M., Tockner, K., Tonolla, D., & Zarfl, C. (2018). Soundpeaking - hydropeaking induced changes in river soundscapes. River Research and Applications, 34(1), 3-12. doi:10.1002/rra.3229
- Meinelt, T., & Bartschat, P. (2018). Brandenburger Fischereitag am 22.08.2018 in Seddin. Fischer und Teichwirt, 69(11), 423-425
- Meinelt, T., Bartschat, P., & Naas, C. (2018). Fortbildungsveranstaltung des Instituts für Binnenfischerei (IfB) Potsdam-Sacrow am 23.08.2018 in Seddin. Fischer und Teichwirt, 69(12), 445-447
- Meinelt, T., Bartschat, P., & Wichmann, T. (2018). Aufbau von Lachsbeständen und Otterregulierung - Fachtag Aquakultur und Fischerei des LfULG: ein bunter Mix aus Fragen und Aufgabenstellungen, Königswartha 6.-7. März 2018. Fischer und Teichwirt, 69(7), 255-257
- Meyer, S., Färber, F., Bartschat, P., Meinelt, T., Kleingeld, D. W., & Lucas, S. C. (2018). Praxisworkshop "Reinigung und Desinfektion in Aquakultur-Betrieben" in der DEULA Schleswig-Holstein GmbH, Rendsburg, am 17.04.2018. Fischer und Teichwirt, 69(8), 283-287.
- Roy, H. E., Groom, Q., Adriaens, T., Agnello, G., Antic, M., Archambeau, A.-S., . . . Cardoso, A. C. (2018). Increasing understanding of alien species through citizen science (Alien-CS). Research Ideas and Outcomes: RIO, 4. doi:10.3897/rio.4.e31412
- Schafft, M., & Arlinghaus, R. (2018). StörBagger - ein neues Forschungsprojekt zur Wirkung von Anglern auf Natur und Umwelt. Fischer und Angler, 4, 25-26
- Voigt, C. C., Azam, C., Dekker, J., Ferguson, J., Fritze, M., Gazaryan, S., . . . Zagmajster, M. (2018). Guidelines for consideration of bats in lighting projects. EUROBATS Publication Series.

Buchbeiträge

- Arlinghaus, R. (2018). Zarybianie - 10 zasad postepowania. In Dzialania prosridowiskowe w racjonalnej gospodarce rybackiej (pp. 61-68). Olsztyn: IRS.
- Arlinghaus, R., Alos, J., Beardmore, B., Diaz, A. M., Hühn, D., Johnston, F. D., . . . Riepe, C. (2018). Recreational piking - sustainably managing pike in recreational fisheries. In C. Skov & P. A. Nilsson (Eds.), Biology and Ecology of Pike (pp. 288-335). Boca Raton: CRC Press.
- Baranov, V. A., & Kalinkat, G. (2018). Community ecology of aquatic insects: a landscape perspective. In V. G. Sycev & L. Mjuller (Eds.), Novel methods and results of landscape research in Europe, Central Asia and Siberia (pp. 115-119). Moskva.
- Bochinski, E., Bacha, G., Eiselein, V., Walles, T. J. W., Nejstgaard, J. C., & Sikora, T. (2018). Deep active learning for in situ plankton classification. In Z. Zhang (Ed.), Pattern recognition and information forensics (pp. 5-15). Cham: Springer.
- Braga, R. R., Gomez-Aparicio, L., Heger, T., Vitule, J. R. S., & Jeschke, J. M. (2018). Invasional meltdown hypothesis. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 79-91). Wallingford: CABI.
- De Wever, A., Schmidt-Kloiber, A., Bremerich, V., & Freyhof, J. (2018). Secondary data : taking advantage of existing data and improving data availability for supporting freshwater ecology research and biodiversity conservation. In J. Hughes (Ed.), Freshwater ecology and conservation. Oxford: Oxford Univ. Press.,
- Enders, M., & Jeschke, J. M. (2018). A network of invasion hypotheses. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 49-59). Wallingford: CABI.
- Geller, W., & Hupfer, M. (2018). Seeökosysteme IV: Populationsökologie - Dichte, Wachstum, Reproduktion und Mortalität der Populationen (Teil 1). In M. Hupfer & H. Fischer (Eds.), Handbuch angewandte Limnologie (pp. 1-31). Weinheim: Wiley.

- Gsell, A. S., Özkundakci, D., Hebert, M.-P., & Adrian, R. (2018). Quantifying interaction networks and stability properties of plankton food webs using multivariate first order autoregressive modelling. In V. G. Sycev & L. Mjuller (Eds.), Novel methods and results of landscape research in Europe, Central Asia and Siberia (pp. 306-310). Moskva.
- Guillerault, N., Hühn, D., Cucherousset, J., Arlinghaus, R., & Skov, C. (2018). Stocking for pike population enhancement. In C. Skov & P. A. Nilsson (Eds.), Biology and Ecology of Pike (pp. 215-247). Boca Raton: CRC Press.
- He, F., Sun, X., Dong, X., Cai, Q., & Jähnig, S. C. (2018). Benthic macroinvertebrates as indicators for river health in Changjiang Basin. In T. Yue (Ed.), Chinese water systems (pp. 207-217). Cham: Springer.
- Heger, T., & Jeschke, J. M. (2018). Conclusions and outlook. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 167-172). Wallingford: CABI.
- Heger, T., & Jeschke, J. M. (2018). Enemy release hypothesis. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 92-102). Wallingford: CABI.
- Heger, T., & Jeschke, J. M. (2018). The hierarchy-of-hypotheses approach. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 14-18). Wallingford: CABI.
- Heger, T., & Jeschke, J. M. (2018). The hierarchy-of-hypotheses approach updated - a toolbox for structuring and analysing theory, research and evidence. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 38-45). Wallingford: CABI.
- Hölker, F., Jechow, A., Schroer, S., & Gessner, M. O. (2018). Nächtliches Licht und Lichtverschmutzung in und um Gewässer. In M. Hupfer & H. Fischer (Eds.), Handbuch angewandte Limnologie (pp. 1-26). Weinheim: Wiley.
- Jeschke, J. M., Debille, S., & Lortie, C. J. (2018). Biotic resistance and island susceptibility hypotheses. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 60-70). Wallingford: CABI.
- Jeschke, J. M., & Erhard, F. (2018). Darwin's naturalization and limiting similarity hypotheses. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 140-146). Wallingford: CABI.
- Jeschke, J. M., & Heger, T. (2018). Synthesis. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 157-166). Wallingford: CABI.
- Jeschke, J. M., & Pysek, P. (2018). Tens rule. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 124-132). Wallingford: CABI.
- Jeschke, J. M., & Starzer, J. (2018). Propagule pressure hypothesis. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 147-153). Wallingford: CABI.
- Kiesel, J., Conrad, Y., Marciniak, H., Sheludkov, A., Abramenko, K., Conrad, M., . . . Fohrer, N. (2018). Water quality in Siberian lowland catchments - measurement campaigns and assessment. In V. G. Sycev & L. Mjuller (Eds.), Novel methods and results of landscape research in Europe, Central Asia and Siberia (pp. 438-442). Moskva.
- Kiesel, J., Hering, D., Ceylan, M., Kuemmerlen, M., Jähnig, S. C., Schmalz, B., & Fohrer, N. (2018). Modelling freshwater habitats and their macroinvertebrate communities. In V. G. Sycev & L. Mjuller (Eds.), Novel methods and results of landscape research in Europe, Central Asia and Siberia (pp. 301-306). Moskva.
- Mazumdar, S., Ceccaroni, L., Piera, J., Hölker, F., Berre, A. J., Arlinghaus, R., & Bowser, A. (2018). Citizen science technologies and new opportunities for participation. In S. Hecker (Ed.), Citizen science : innovation in open science, society and policy (pp. 303-320). London: UCL Press.
- Nordheimer, R., & Jeschke, J. M. (2018). Disturbance hypothesis. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 71-78). Wallingford: CABI.
- Schroer, S., Kyba, C. C. M., Van Grunsven, R. H. A., Celino, I., Corcho, O., & Hölker, F. (2018). Citizen science to monitor light pollution - a useful tool for studying human impacts on the environment. In S. Hecker (Ed.), Citizen science : innovation in open science, society and policy (pp. 353-365). London: UCL Press.
- Torchyk, O., & Jeschke, J. M. (2018). Phenotypic plasticity hypothesis. In J. M. Jeschke & T. Heger (Eds.), Invasion biology (pp. 133-139). Wallingford: CABI.
- Xie, H., Matranga, M., & Mateo-Sagasta, J. (2018). The role of models. In J. Mateo-Sagasta & ... (Eds.), More people, more food, worse water? (pp. 139-156). Rome: FAO.
- Zak, D., McInnes, R. J., & Gelbrecht, J. (2018). Managing phosphorus release from restored minerotrophic peatlands. In C. M. Finlayson & ... (Eds.), The Wetland Book I: Structure and function, management, and methods (pp. 1321-1327). Dordrecht: Springer.

Monografien

- Adrian, R., & Shatwell, T. (2018). Seen im Klimawandel: Diagnosen und Prognosen aus der Langzeitforschung. Berlin: IGB.
- Freyhof, J., Baycelebi, E., & Geiger, M. F. (2018). Review of the genus Cobitis in the Middle East, with the description of eight new species (Teleostei: Cobitidae). Auckland, New Zealand: Magnolia Press.
- Friedrich, T., Geßner, J., Reinartz, R., & Striebel-Greiter, B. (2018). Pan-European action plan for sturgeons: multi species action plan for the Russian sturgeo complex (*Acipenser gueldenstaedtii*, *A. persicus-colchicus*), Adriatic sturgeon (*Acipenser naccarii*), ship sturgeo (*Acipenser nudiventris*), Atlantic/Baltic sturgeon (*Acipenser oxyrinchus*), Sterlet (*Acipenser ruthenus*), Stellate sturgeon (*Acipenserstellatus*), European/Common sturgeon (*Acipenser sturio*) and Beluga (*Huso huso*). Strasbourg.
- Podschun, S. A., Albert, C., Costea, G., Damm, C., Dehnhardt, A., Fischer, C., ... Pusch, M. T. (2018). RESI-Anwendungshandbuch: Ökosystemleistungen von Flüssen und Auen erfassen und bewerten (Vol. 31). Berlin: IGB.
- Rabitsch, W., Heger, T., Jeschke, J. M., Saul, W.-C., & Nehring, S. (2018). Analyse und Priorisierung der Pfade nicht vorsätzlicher Einbringung und Ausbreitung invasiver gebietsfremder Arten in Deutschland gemäß Verordnung (EU) Nr. 1143/2014. Bonn: BfN.
- Schäffer, A., Filser, J., Frische, T., Gessner, M. O., Köck, W., Kratz, W., ... Scheringer, M. (2018). Der stumme Frühling - zur Notwendigkeit eines umweltverträglichen Pflanzenschutzes. Halle (Saale): Leopoldina.