

Publikationen 2019

Zeitschriftenbeiträge

Referierte Zeitschriftenbeiträge mit Impact-Faktor

- Aichner, B., Makhmudov, Z., Rajabov, I., Zhang, Q., Pausata, F. S. R., Werner, M., ... Mischke, S. (2019). Hydroclimate in the Pamirs was driven by changes in precipitation-evaporation seasonality since the last glacial period. *Geophysical Research Letters*, 46(23), 13972-13983. doi:10.1029/2019GL085202
- Alos, J., Campos-Candela, A., & Arlinghaus, R. (2019). A modelling approach to evaluate the impact of fish spatial behavioural types on fisheries stock assessment. *ICES Journal of Marine Science*, 76(2), 489-500. doi:10.1093/icesjms/fsy172
- Arce, M. I., Mendoza-Lera, C., Almagro, M., Catalan, N., Romaní, A. M., Martí, E., ... Von Schiller, D. (2019). A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. *Earth-Science Reviews*, 188, 441-453. doi:10.1016/j.earscirev.2018.11.012
- Arias-Andres, M., Rojas-Jimenez, K., & Grossart, H.-P. (2019). Collateral effects of microplastic pollution on aquatic microorganisms: an ecological perspective. *Trends in Analytical Chemistry*, 112, 234-240. doi:10.1016/j.trac.2018.11.041
- Arlinghaus, R., Abbott, J. K., Fenichel, E. P., Carpenter, S. R., Hunt, L. M., Alos, J., ... Manfredo, M. J. (2019). Governing the recreational dimension of global fisheries. *Proceedings of the National Academy of Sciences of the United States of America*, 116(12), 5209-5213. doi:10.1073/pnas.1902796116
- Arranz, I., Hsieh, C.-h., Mehner, T., & Bruzet, S. (2019). Systematic deviations from linear size spectra of lake fish communities are correlated with predator-prey interactions and lake-use intensity. *Oikos*, 128(1), 33-44. doi:10.1111/oik.05355
- Auerbach, J., Barthelmess, E., Cavalier, D., Cooper, C. B., Fenyk, H., Haklay, M., ... Shanley, L. (2019). The problem with delineating narrow criteria for citizen science. *Proceedings of the National Academy of Sciences of the United States of America*, 116(31), 15336-15337. doi:10.1073/pnas.1909278116
- Baberschke, N., Irob, K., Preuer, T., Meinelt, T., & Kloas, W. (2019). Potash mining effluents and ion imbalances cause transient osmoregulatory stress, affect gill integrity and elevate chronically plasma sulfate levels in adult common roach, *Rutilus rutilus*. *Environmental Pollution*, 249, 181-190. doi:10.1016/j.envpol.2019.03.004
- Baberschke, N., Schulzik, L., Preuer, T., Knopf, K., Meinelt, T., & Kloas, W. (2019). Potash mining effluents and ion imbalances cause transient stress in adult common roach, *Rutilus rutilus*. *Ecotoxicology and Environmental Safety*, 180, 733-741. doi:10.1016/j.ecotoenv.2019.05.069
- Barbosa, A., Martin, B., Hermoso, V., Arevalo-Torres, J., Barbière, J., Martínez-Lopez, J., ... Iglesias-Campos, A. (2019). Cost-effective restoration and conservation planning in green and blue infrastructure designs: a case study on the Intercontinental Biosphere Reserve of the Mediterranean: Andalusia (Spain) - Morocco. *Science of the Total Environment*, 652, 1463-1473. doi:10.1016/j.scitotenv.2018.10.416
- Bartram, I., & Jeschke, J. M. (2019). Do cancer stem cells exist? A pilot study combining a systematic review with the hierarchy-of-hypotheses approach. *PLoS One*, 14(12), e0225898. doi:10.1371/journal.pone.0225898
- Batista, A. M. M., Woodhouse, J. N., Grossart, H.-P., & Giani, A. (2019). Methanogenic archaea associated to *Microcystis* sp. in field samples and in culture. *Hydrobiologia*, 831(1), 163-172. doi:10.1007/s10750-018-3655-3
- Beisner, B. E., Grossart, H.-P., & Gasol, J. M. (2019). A guide to methods for estimating phago-mixotrophy in nanophytoplankton. *Journal of Plankton Research*, 41(2), 77-89. doi:10.1093/plankt/fbz008
- Berger, R. C., & Kiesel, J. (2019). Conceptual model of salinity intrusion by tidal trapping. *Journal of Hydraulic Engineering*, 145(10), art. 04019033. doi:10.1061/(ASCE)HY.1943-7900.0001627
- Berger-Tal, O., Gregg, A. L., Macura, B., Adams, C. A., Blumenthal, A., Bouskila, A., ... Blumstein, D. T. (2019). Systematic evidence synthesis as part of a larger process: a response to comments on Berger-Tal et al. *Behavioral Ecology*, 30(1), 14-15. doi:10.1093/beheco/ary163
- Berger-Tal, O., Gregg, A. L., Macura, B., Adams, C. A., Blumenthal, A., Bouskila, A., ... Blumstein, D. T. (2019). Systematic reviews and maps as tools for applying behavioral ecology to management and policy. *Behavioral Ecology*, 30(1), 1-8. doi:10.1093/beheco/ary130
- Block, B. D., Denfeld, B. A., Stockwell, J. D., Flaim, G., Grossart, H.-P., Knoll, L. B., ... Hampton, S. E. (2019). The unique methodological challenges of winter limnology. *Limnology and Oceanography: Methods*, 17(1), 42-57. doi:10.1002/lom3.10295
- Blöschl, G., Bierkens, M. F. P., Chambel, A., Cudennec, C., Destouni, G., Fiori, A., ... Zhang, Y. (2019). Twenty-three unsolved problems in hydrology (UPH) - a community perspective. *Hydrological Sciences Journal*, 64(10), 1141-1158. doi:10.1080/02626667.2019.1620507
- Bodmer, P., Attermeyer, K., Pastor, A., & Catalan, N. (2019). Collaborative Projects: Unleashing Early Career Scientists' Power. *Trends in Ecology and Evolution*, 34(10), 871-874. doi:10.1016/j.tree.2019.07.016
- Bracamonte, S. E., Johnston, P. R., Knopf, K., & Monaghan, M. T. (2019). Experimental infection with *Anguillula crassus* alters immune gene expression in both spleen and head kidney of the European eel (*Anguilla anguilla*). *Marine Genomics*, 45, 28-37. doi:10.1016/j.margen.2018.12.002
- Bracamonte, S. E., Johnston, P. R., Monaghan, M. T., & Knopf, K. (2019). Gene expression response to a nematode parasite in novel and native eel hosts. *Ecology and Evolution*, 9(23), 13069-13084. doi:10.1002/ece3.5728
- Brandenburg, K. M., Velthuis, M., & Van de Waal, D. B. (2019). Meta-analysis reveals enhanced growth of marine harmful algae from temperate regions with warming and elevated CO₂ levels. *Global Change Biology*, 25(8), 2607-2618. doi:10.1111/gcb.14678
- Bridgewater, P., Loyau, A., & Schmeller, D. S. (2019). The seventh plenary of the intergovernmental platform for biodiversity and ecosystem services (IPBES-7): a global assessment and a reshaping of IPBES. *Biodiversity and Conservation*, 28(10), 2457-2461. doi:10.1007/s10531-019-01804-w
- Brightenti, S., Tolotti, M., Bruno, M. C., Wharton, G., Pusch, M. T., & Bertoldi, W. (2019). Ecosystem shifts in Alpine streams under glacier retreat and rock glacier thaw: a review. *Science of the Total Environment*, 675, 542-559. doi:10.1016/j.scitotenv.2019.04.221
- Broecker, T., Teuber, K., Gollo, V. S., Nützmann, G., Lewandowski, J., & Hinkelmann, R. (2019). Integral flow modelling approach for surface water-groundwater interactions along a rippled streambed. *Water*, 11(7), 1517. doi:10.3390/w11071517
- Bronzi, P., Chebanov, M., Michaels, J. T., Wei, Q., Rosenthal, H., & Geßner, J. (2019). Sturgeon meat and caviar production: global update 2017. *Journal of Applied Ichthyology*, 35(1), 257-266. doi:10.1111/jai.13870
- Browman, H. I., Cooke, S. J., Cowx, I. G., Derbyshire, S. W. G., Kasumyan, A. O., Key, B., ... Arlinghaus, R. (2019). Welfare of aquatic animals: where things are, where they are going, and what it means for research, aquaculture, recreational angling, and commercial fishing. *ICES Journal of Marine Science*, 76(1), 82-92. doi:10.1093/icesjms/fsy067

- Brownscombe, J. W., Hyder, K., Potts, W., Wilson, K. L., Pope, K. L., Danylchuk, A. J., ... Post, J. R. (2019). The future of recreational fisheries: advances in science, monitoring, management, and practice. *Fisheries Research*, 211, 247-255. doi:10.1016/j.fishres.2018.10.019
- Buccheri, M. A., Salvo, E., Coci, M., Quero, G. M., Zoccarato, L., Privitera, V., & Rappazzo, G. (2019). Investigating microbial indicators of anthropogenic marine pollution by 16S and 18S High-Throughput Sequencing (HTS) library analysis. *FEMS Microbiology Letters*, 366(14), fnz179. doi:10.1093/femsle/fnz179
- Buddendorf, W. B., Jackson, F. L., Malcolm, I. A., Millidine, K. J., Geris, J., Wilkinson, M. E., & Soulsby, C. (2019). Integration of juvenile habitat quality and river connectivity models to understand and prioritise the management of barriers for Atlantic salmon populations across spatial scales. *Science of the Total Environment*, 655, 557-566. doi:10.1016/j.scitotenv.2018.11.263
- Cámarra-Ruiz, M., Espírito Santo, C., Geßner, J., & Wuertz, S. (2019). How to improve foraging efficiency for restocking measures of juvenile Baltic sturgeon (*Acipenser oxyrinchus*). *Aquaculture*, 502, 12-17. doi:10.1016/j.aquaculture.2018.12.021
- Cámarra-Ruiz, M., Espírito Santo, C., Mai, A., Geßner, J., & Wuertz, S. (2019). Can juvenile Baltic sturgeon (*Acipenser oxyrinchus*) smell the enemy? *Journal of Applied Ichthyology*, 35(4), 835-842. doi:10.1111/jai.13934
- Campos-Candela, A., Palmer, M., Balle, S., & Alos, J. (2019). Response to Abolaffio et al. (2019): Avoiding misleading messages. *Journal of Animal Ecology*, 88(12), 2017-2021. doi:10.1111/1365-2656.13084
- Campos-Candela, A., Palmer, M., Balle, S., Alvarez, A., & Alos, J. (2019). A mechanistic theory of personality-dependent movement behaviour based on dynamic energy budgets. *Ecology Letters*, 22(2), 213-232. doi:10.1111/ele.13187
- Carvalho, L., Mackay, E. B., Cardoso, A. C., Baattrup-Pedersen, A., Birk, S., Blackstock, K. L., ... Solheim, A. L. (2019). Protecting and restoring Europe's waters: an analysis of the future development needs of the Water Framework Directive. *Science of the Total Environment*, 658, 1228-1238. doi:10.1016/j.scitotenv.2018.12.255
- Castaneda, I., Bellard, C., Jaric, I., Pisanu, B., Chapuis, J.-L., & Bonnaud, E. (2019). Trophic patterns and home-range size of two generalist urban carnivores: a review. *Journal of Zoology*, 307(2), 79-92. doi:10.1111/jzo.12623
- Celussi, M., Zoccarato, L., Bernardi Aubry, F., Bastianini, M., Casotti, R., Balestra, C., ... Del Negro, P. (2019). Links between microbial processing of organic matter and the thermohaline and productivity features of a temperate river-influenced Mediterranean coastal area. *Estuarine, Coastal and Shelf Science*, 228, 106378. doi:10.1016/j.ecss.2019.106378
- Chen, H., Zhang, H., Chen, Y., & Freyhof, J. (2019). A review of the Barbatula loaches (Teleostei: Nemacheilidae) from north-eastern China, with the description of four new species. *Zootaxa*, 4565(1), 1-36. doi:10.11646/zootaxa.4565.1.1
- Cooke, S. J., Twardek, W. M., Reid, A. J., Lennox, R. J., Danylchuk, S. C., Brownscombe, J. W., ... Danylchuk, A. J. (2019). Searching for responsible and sustainable recreational fisheries in the Anthropocene. *Journal of Fish Biology*, 94(6), 845-856. doi:10.1111/jfb.13935
- D'Agostino, P. M., Woodhouse, J. N., Liew, H. T., Sehnal, L., Pickford, R., Wong, H. L., ... Neilan, B. A. (2019). Bioinformatic, phylogenetic and chemical analysis of the UV-absorbing compounds scytonemin and mycosporine-like amino acids from the microbial mat communities of Shark Bay, Australia. *Environmental Microbiology*, 21(2), 702-715. doi:10.1111/1462-2920.14517
- Davis, B. E., Hansen, M. J., Cocherell, D. E., Nguyen, T. X., Sommer, T., Baxter, R. D., ... Todgham, A. E. (2019). Consequences of temperature and temperature variability on swimming activity, group structure, and predation of endangered delta smelt. *Freshwater Biology*, 64(12), 2156-2175. doi:10.1111/fwb.13403
- Del Campo, R., Gomez, R., & Singer, G. A. (2019). Dry phase conditions prime wet-phase dissolved organic matter dynamics in intermittent rivers. *Limnology and Oceanography*, 64(5), 1966-1979. doi:10.1002/lnco.11163
- Domisch, S., Friedrichs, M., Hein, T., Borgwardt, F., Wetzig, A., Jähnig, S. C., & Langhans, S. D. (2019). Spatially explicit species distribution models: a missed opportunity in conservation planning? *Diversity and Distributions*, 25(5), 758-769. doi:10.1111/ddi.12891
- Domisch, S., Kakouei, K., Martinez-Lopez, J., Bagstad, K. J., Magrach, A., Balbi, S., ... Langhans, S. D. (2019). Social equity shapes zone-selection: balancing aquatic biodiversity conservation and ecosystem services delivery in the transboundary Danube River Basin. *Science of the Total Environment*, 656, 797-807. doi:10.1016/j.scitotenv.2018.11.348
- Doran, C., Bierbach, D., & Laskowski, K. L. (2019). Familiarity increases aggressiveness among clonal fish. *Animal Behaviour*, 148, 153-159. doi:10.1016/j.anbehav.2018.12.013
- Douinot, A., Tetzlaff, D., Maneta, M. P., Kuppel, S., Schulte-Bispinger, H., & Soulsby, C. (2019). Ecohydrological modelling with EcH2O-iso to quantify forest and grassland effects on water partitioning and flux ages. *Hydrological Processes*, 33(16), 2174-2191. doi:10.1002/hyp.13480
- Du, K., Wuertz, S., Adolphi, M., Kneitz, S., Stöck, M., Oliveira, M., ... Schartl, M. (2019). The genome of the arapaima (Arapaima gigas) provides insights into gigantism, fast growth and chromosomal sex determination system. *Scientific Reports*, 9, 5293. doi:10.1038/s41598-019-41457-x
- Dubbert, M., Caldeira, M. C., Dubbert, D., & Werner, C. (2019). A pool-weighted perspective on the two-water-worlds hypothesis. *New Phytologist*, 222(3), 1271-1283. doi:10.1111/nph.15670
- Dück, Y., Liu, L., Lorke, A., Ostrovsky, I., Katsman, R., & Jokiel, C. (2019). A novel freeze corer for characterization of methane bubbles and assessment of coring disturbances. *Limnology and Oceanography: Methods*, 17(5), 305-319. doi:10.1002/lom3.10315
- Eckert, W., Leunert, F., Yacobi, Y. Z., Köhler, J., & Kurzbaum, E. (2019). Diurnal changes in the delayed fluorescence response of an ambient light-excited green alga. *Photosynthetica*, 57(1), 40-46. doi:10.32615/ps.2019.012
- Eigemann, F., Vogts, A., Voss, M., Zoccarato, L., & Schulz-Vogt, H. (2019). Distinctive tasks of different cyanobacteria and associated bacteria in carbon as well as nitrogen fixation and cycling in a late stage Baltic Sea bloom. *PLoS One*, 14(12), e0223294. doi:10.1371/journal.pone.0223294
- El Shazly, B., Urbanski, A., Johnston, P. R., & Rolff, J. (2019). In vivo exposure of insect AMP resistant *Staphylococcus aureus* to an insect immune system. *Insect Biochemistry and Molecular Biology*, 110, 60-68. doi:10.1016/j.ibmb.2019.04.017
- Enders, M., Havemann, F., & Jeschke, J. M. (2019). A citation-based map of concepts in invasion biology. *NeoBiota*(47), 23-42. doi:10.3897/neobiota.47.32608
- Erös, T., Kuehne, L., Dolezsai, A., Sommerwerk, N., & Wolter, C. (2019). 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
- Ersoy, Z., Bruchet, S., Bartrons, M., & Mehner, T. (2019). Short-term fish predation destroys resilience of zooplankton communities and prevents recovery of phytoplankton control by zooplankton grazing. *PLoS One*, 14(2), e0212351. doi:10.1371/journal.pone.0212351
- Essl, F., Dullinger, S., Genovesi, P., Hulme, P. E., Jeschke, J. M., Katsanevakis, S., ... Bacher, S. (2019). A conceptual framework for range-expanding species that track human-induced environmental change. *BioScience*, 69(11), 908-919. doi:10.1093/biosci/biz101
- Essl, F., Lenzner, B., Courchamp, F., Dullinger, S., Jeschke, J. M., Kühn, I., ... Seebens, H. (2019). Introducing AlienScenarios: a project to develop scenarios and models of biological invasions for the 21st century. *NeoBiota*(45), 1-17. doi:10.3897/neobiota.45.33366
- Fabris, L., Buddendorf, W. B., & Soulsby, C. (2019). Assessing the seasonal effect of flow regimes on availability of Atlantic salmon fry habitat in an upland Scottish stream. *Science of the Total Environment*, 696, 133857. doi:10.1016/j.scitotenv.2019.133857
- Fischer, C., Damm, C., Foeckler, F., Gelhaus, M., Gerstner, L., Harris, R. M. B., ... Scholz, M. (2019). The "Habitat Provision" index for assessing floodplain biodiversity and restoration potential as an ecosystem service: method and application. *Frontiers in Ecology and Evolution*, 7, art. 483. doi:10.3389/fevo.2019.00483
- Frenken, T., Agha, R., Schmeller, D. S., Van West, P., & Wolinska, J. (2019). Biological concepts for the control of aquatic zoosporic diseases. *Trends in Parasitology*, 35(7), 571-582. doi:10.1016/j.pt.2019.04.003
- Freyhof, J., Kaya, C., Baycelebi, E., Geiger, M. F., & Turan, D. (2019). Comments on the holotype of *Alburnus kurui* Mangit & Yerli 2018 and re-description of *A. carianorum* Freyhof, Kaya, Baycelebi, Geiger & Turan, 2019 (Teleostei: Leuciscidae). *Zootaxa*, 4550(4), 594-596. doi:10.11646/zootaxa.4550.4.10

- Freyhof, J., Kaya, C., Turan, D., & Geiger, M. F. (2019). Review of the Oxy-nemacheilus tigris group with the description of two new species from the Euphrates drainage (Teleostei: Nemacheilidae). *Zootaxa*, 4612(1), 29-57. doi:10.11646/zootaxa.4612.1.2
- Freyhof, J., & Turan, D. (2019). *Alburnus magnificus*, a new species of bleak from the Orontes River drainage (Teleostei: Leuciscidae). *Zootaxa*, 4559(2), 373-383. doi:10.11646/zootaxa.4559.2.10
- Friedrich, T., Reinartz, R., & Geßner, J. (2019). Sturgeon re-introduction in the upper and middle Danube River basin. *Journal of Applied Ichthyology*, 35(5), 1059-1068. doi:10.1111/jai.13966
- Frost, C. M., Allen, W. J., Courchamp, F., Jeschke, J. M., Saul, W.-C., & Wardle, D. A. (2019). Using network theory to understand and predict biological invasions. *Trends in Ecology and Evolution*, 34(9), 831-843. doi:10.1016/j.tree.2019.04.012
- Gallardo, B., Bacher, S., Bradley, B., Comin, F. A., Gallien, L., Jeschke, J. M., ... Vila, M. (2019). InvasiBES : understanding and managing the impacts of invasive alien species on biodiversity and ecosystem services. *NeoBiota*(50), 109-122. doi:10.3897/neobiota.50.35466
- Galloway, J., Fox, A., Lewandowski, J., & Arnon, S. (2019). The effect of unsteady streamflow and stream-groundwater interactions on oxygen consumption in a sandy streambed. *Scientific Reports*, 9, 19735. doi:10.1038/s41598-019-56289-y
- Gao, H., Birkel, C., Hrachowitz, M., Tetzlaff, D., Soulsby, C., & Savenije, H. H. G. (2019). A simple topography-driven and calibration-free runoff generation module. *Hydrology and Earth System Sciences*, 23(2), 787-809. doi:10.5194/hess-23-787-2019
- Gaona Garcia, J., Meinikmann, K., & Lewandowski, J. (2019). Identification of groundwater exfiltration, interflow discharge, and hyporheic exchange flows by fibre optic distributed temperature sensing supported by electromagnetic induction geophysics. *Hydrological Processes*, 9, art.19735. doi:10.1002/hyp.13408
- Garcia, J. A., Sbragaglia, V., Masip, D., & Aguzzi, J. (2019). Long-term video tracking of cohoose aquatic animals: a case study of the daily locomotor activity of the Norway lobster (*Nephrops norvegicus*). *JoVE Journal of Visualized Experiments* (146), e58515. doi:10.3791/58515
- Gericke, A., Kiesel, J., Deumlich, D., & Venohr, M. (2019). Recent and future changes in rainfall erosivity and implications for the soil erosion risk in Brandenburg, NE Germany. *Water*, 11(5), 904. doi:10.3390/w11050904
- Gerphagnon, M., Agha, R., Martin-Creuzburg, D., Bec, A., Perriere, F., Rad-Menendez, C., ... Wolinska, J. (2019). Comparison of sterol and fatty acid profiles of chytrids and their hosts reveals trophic upgrading of nutritionally inadequate phytoplankton by fungal parasites. *Environmental Microbiology*, 21(3), 949-958. doi:10.1111/1462-2920.14489
- Geschke, J., Vohland, K., Bonn, A., Dauber, J., Gessner, M. O., Henle, K., ... Wetzel, F. (2019). Biodiversitätsmonitoring in Deutschland: wie Wissenschaft, Politik und Zivilgesellschaft ein nationales Monitoring unterstützen können. *Gaia*, 28(3), 265-270. doi:10.14512/gaia.28.3.6
- Geßner, J., Friedrich, T., & Rosenthal, H. (2019). Summary report on the major topics addressed at ISS 8 (8th International Symposium on Sturgeons). *Journal of Applied Ichthyology*, 35(1), 4-10. doi:10.1111/jai.13866
- Gillefalk, M., Herzog, C., & Hilt, S. (2019). Phosphorus availability and growth of benthic primary producers in littoral lake sediments: are differences linked to induced bank filtration? *Water*, 11(5), 1111. doi:10.3390/w11051111
- Gillefalk, M., Mooij, W. M., Teurlincx, S., Janssen, A. B. G., Janse, J. H., Chang, M., ... Hilt, S. (2019). Modelling induced bank filtration effects on freshwater ecosystems to ensure sustainable drinking water production. *Water Research*, 157, 19-29. doi:10.1016/j.watres.2019.03.048
- Goldsmith, G. R., Allen, S. T., Braun, S., Engbersen, N., González-Quijano, C. R., Kirchner, J. W., & Siegwolf, R. T. W. (2019). Spatial variation in throughfall, soil, and plant water isotopes in a temperate forest. *Ecohydrology*, 12(2), e2059. doi:10.1002/eco.2059
- González-Moreno, P., Lazzaro, L., Vila, M., Preda, C., Adriaens, T., Bacher, S., ... Kenis, M. (2019). Consistency of impact assessment protocols for non-native species. *NeoBiota*, (44), 1-25. doi:10.3897/neobiota.44.31650
- Gonzalez-Valencia, R., Magaña-Rodriguez, F., Sepulveda-Jauregui, A., Aguirrezabala-Campano, T., Gerardo-Nieto, O., & Thalasso, F. (2019). A simple model for the numerical characterization of spatiotemporal variability in aquatic ecosystems. *Aquatic Sciences*, 81(4), art. 58. doi:10.1007/s00027-019-0652-1
- Gossmann, T. I., Shanmugasundram, A., Boerno, S., Duvaux, L., Lemaire, C., Kuhl, H., ... Ralser, M. (2019). Ice-age climate adaptations trap the Alpine marmot in a state of low genetic diversity. *Current Biology*, 29(10), 1712-1720 e1717. doi:10.1016/j.cub.2019.04.020
- Granin, N. G., Aslamov, I. A., Kozlov, V. V., Makarov, M. M., Kirillin, G., McGinnis, D. F., ... Gnatovsky, R. Y. (2019). Methane hydrate emergence from Lake Baikal: direct observations, modelling, and hydrate footprints in seasonal ice cover. *Scientific Reports*, 9, 19361. doi:10.1038/s41598-019-55758-8
- Grill, G., Lehner, B., Thieme, M., Geenen, B., Tickner, D., Antonelli, F., ... Zarfl, C. (2019). Mapping the world's free-flowing rivers. *Nature*, 569(7755), 215-221. doi:10.1038/s41586-019-1111-9
- Grossart, H.-P., Van den Wyngaert, S., Kagami, M., Wurzbacher, C. M., Cunliffe, M., & Rojas-Jimenez, K. (2019). Fungi in aquatic ecosystems. *Nature Reviews Microbiology*, 17(6), 339-354. doi:10.1038/s41579-019-0175-8
- Grubisic, M., Haim, A., Bhushal, P., Dominoni, D. M., Gabriel, K. M. A., Jechow, A., ... Höller, F. (2019). Light pollution, circadian photoreception, and melatonin in vertebrates. *Sustainability*, 11(22), 6400. doi:10.3390/su1226400
- Guislain, A., Beisner, B. E., & Köhler, J. (2019). Variation in species light acquisition under fluctuating light regimes: implications for non-equilibrium coexistence. *Oikos*, 128(5), 716-728. doi:10.1111/oik.05297
- Günthel, M., Donis, D., Kirillin, G., Ionescu, D., Bizic-Ionescu, M., McGinnis, D. F., ... Tang, K. W. (2019). Contribution of oxic methane production to surface methane emission in lakes and its global importance. *Nature Communications*, 10, art. 5497. doi:10.1038/s41467-019-13320-o
- Guo, C., Chen, Y., Gozlan, R. E., Li, Z., Mehner, T., Lek, S., & Paukert, C. P. (2019). Biogeographic freshwater fish pattern legacy revealed despite rapid socio-economic changes in China. *Fish and Fisheries*, 20(5), 857-869. doi:10.1111/faf.12380
- Guse, B., Pfannerstill, M., Kiesel, J., Strauch, M., Volk, M., & Fohrer, N. (2019). Analysing spatio-temporal process and parameter dynamics in models to characterise contrasting catchments. *Journal of Hydrology*, 570, 863-874. doi:10.1016/j.jhydrol.2018.12.050
- Hansson, T. H., Grossart, H.-P., Del Giorgio, P. A., St-Gelais, N. F., & Beisner, B. E. (2019). Environmental drivers of mixotrophs in boreal lakes. *Limnology and Oceanography*, 64(4), 1688-1705. doi:10.1002/lno.11144
- He, F., & Jähnig, S. C. (2019). Put freshwater megafauna on the table before they are eaten to extinction. *Conservation Letters*, 12(5), e12662. doi:10.1111/conl.12662
- He, F., Zarfl, C., Bremerich, V., David, J. N. W., Hogan, Z., Kalinkat, G., ... Jähnig, S. C. (2019). The global decline of freshwater megafauna. *Global Change Biology*, 25(11), 3883-3892. doi:10.1111/gcb.14753
- He, L., Bakker, E. S., Alirangues Nunez, M. M., & Hilt, S. (2019). Combined effects of shading and clipping on the invasive alien macrophyte *Elodea nuttallii*. *Aquatic Botany*, 154, 24-27. doi:10.1016/j.aquabot.2018.11.014
- He, L., Zhu, T., Wu, Y., Li, W., Zhang, H., Zhang, X., ... Hilt, S. (2019). Littoral slope, water depth and alternative response strategies to light attenuation shape the distribution of submerged macrophytes in a mesotrophic lake. *Frontiers in Plant Science*, 10, 169. doi:10.3389/fpls.2019.00169
- Heeger, F., Wurzbacher, C. M., Bourne, E. C., Mazzoni, C. J., & Monaghan, M. T. (2019). Combining the 5.8S and ITS2 to improve classification of fungi. *Methods in Ecology and Evolution*, 10(10), 1702-1711. doi:10.1111/2041-210X.13266
- Heger, T., Bernard-Verdier, M., Gessler, A., Greenwood, A. D., Grossart, H.-P., Hilker, M., ... Jeschke, J. M. (2019). Towards an integrative, eco-evolutionary understanding of ecological novelty: studying and communicating interlinked effects of global change. *BioScience*, 69(11), 888-899. doi:10.1093/biosci/biz095
- Heinz, J., Waajen, A. C., Airo, A., Alibrandi, A., Schirmack, J., & Schulze-Makuch, D. (2019). Bacterial growth in chloride and perchlorate brines: halotolerances and salt stress responses of *Planococcus halocryophilus*. *Astrobiology*, 19(11), 1377-1387. doi:10.1089/ast.2019.2069
- Hermann, B. T., Wuertz, S., Vanselow, K. H., Schulz, C., & Stiller, K. T. (2019). Divergent gene expression in the gills of juvenile turbot (*Psetta maxima*) exposed to chronic severe hypercapnia indicates dose-dependent increase in intracellular oxidative stress and hypoxia. *Aquatic Toxicology*, 206, 72-80. doi:10.1016/j.aquatox.2018.10.023

- Herrero Ortega, S., Romero González-Quijano, C., Casper, P., Singer, G. A., & Gessner, M. O. (2019). Methane emissions from contrasting urban freshwaters: rates, drivers, and a whole-city footprint. *Global Change Biology*, 25(12), 4234-4243. doi:10.1111/gcb.14799
- Hickisch, R., Hodgetts, T., Johnson, P. J., Sillero-Zubiri, C., Tockner, K., & Macdonald, D. W. (2019). Effects of publication bias on conservation planning. *Conservation Biology*, 33(5), 1151-1163. doi:10.1111/cobi.1326
- Hjalmarsson, A. E., Graf, W., Vitecek, S., Jähnig, S. C., Cai, Q., Sharma, S., ... Pauls, S. U. (2019). Molecular phylogeny of Himalopsyche (Trichoptera, Rhyacophilidae). *Systematic Entomology*, 44(4), 973-984. doi:10.1111/syen.12367
- Hofmann, S., Kuhl, H., Baniya, C. B., & Stöck, M. (2019). Multi-tissue transcriptomes yield information on high-altitude adaptation and sex-determination in *Scutiger cf. sikimensis*. *Genes*, 10(11), art. 873. doi:10.3390/genes10110873
- Honnen, A.-C., Kypke, J. L., Höller, F., & Monaghan, M. T. (2019). Artificial light at night influences clock-gene expression, activity, and fecundity in the mosquito *Culex pipiens f. molestus*. *Sustainability*, 11(22), 6220. doi:10.3390/su11226220
- Hunt, L. M., Camp, E. V., Van Poorten, B. T., & Arlinghaus, R. (2019). Catch and non-catch-related determinants of where anglers fish: a review of three decades of site choice research in recreational fisheries. *Reviews in Fisheries Science & Aquaculture*, 27(3), 261-286. doi:10.1080/23308249.2019.1583166
- Hunting, E. R., Harrison, R. G., Bruder, A., Van Bodegom, P. M., Van der Geest, H. G., Kampfraath, A. A., ... Gessner, M. O. (2019). Atmospheric electricity influencing biogeochemical processes in soils and sediments. *Frontiers in Physiology*, 10, 378. doi:10.3389/fphys.2019.00378
- Hupfer, M., Jordan, S., Herzog, C., Ebeling, C., Ladwig, R., Rothe, M., & Lewandowski, J. (2019). Chironomid larvae enhance phosphorus burial in lake sediments: insights from long-term and short-term experiments. *Science of the Total Environment*, 663, 254-264. doi:10.1016/j.scitotenv.2019.01.274
- Irob, K., Wagler, M., Baberschke, N., Meinelt, T., & Kloas, W. (2019). Potash mining effluents induce moderate effects on histopathological and physiological endpoints of adult zebrafish (*Danio rerio*). *Science of the Total Environment*, 694, 133471. doi:10.1016/j.scitotenv.2019.07.277
- Jabioli, J., Lecerf, A., Lamothe, S., Gessner, M. O., & Chauvet, E. (2019). Litter quality modulates effects of dissolved nitrogen on leaf decomposition position by stream microbial communities. *Microbial Ecology*, 77(4), 959-966. doi:10.1007/s00248-019-01353-3
- Jacimovic, M., Lenhardt, M., Krpo-Cetkovic, J., Jaric, I., Gacic, Z., & Hedges, A. (2019). Boom-bust like dynamics of invasive black bullhead (*Ameiurus melas*) in Lake Sava (Serbia). *Fisheries Management and Ecology*, 26(2), 153-164. doi:10.1111/fme.12335
- Jäger, A., Coll, C., Posselt, M., Mechelke, J., Rutere, C., Betterle, A., ... Lewandowski, J. (2019). Using recirculating flumes and a response surface model to investigate the role of hyporheic exchange and bacterial diversity on micropollutant half-lives. *Environmental Science: Processes & Impacts*, 21(12), 2093-2108. doi:10.1039/C9EM00327D
- Jäger, A., Posselt, M., Betterle, A., Schaper, J. L., Mechelke, J., Coll, C., & Lewandowski, J. (2019). Spatial and temporal variability in attenuation of polar organic micropollutants in an urban lowland stream. *Environmental Science and Technology*, 53(5), 2383-2395. doi:10.1021/acs.est.8bc05488
- Jähnig, S. C., Monaghan, M. T., & Hering, D. (2019). In-depth approach to river management (correspondence). *Nature*, 572(7767), 32. doi:10.1038/d41586-019-02327-8
- Jaric, I., Bronzi, P., Cvijanovic, G., Lenhardt, M., Smederevac-Lalic, M., & Gefßner, J. (2019). Paddlefish (*Polyodon spathula*) in Europe: an aquaculture species and a potential invader. *Journal of Applied Ichthyology*, 35(1), 267-274. doi:10.1111/jai.13672
- Jaric, I., Correira, R. A., Roberts, D. L., Gefßner, J., Meinard, Y., & Courchamp, F. (2019). On the overlap between scientific and societal taxonomic attentions - insights for conservation. *Science of the Total Environment*, 648, 772-778. doi:10.1016/j.scitotenv.2018.08.198
- Jaric, I., Heger, T., Castro Monzon, F., Jeschke, J. M., Kowarik, I., McConkey, K. R., ... Essl, F. (2019). Crypticity in biological invasions. *Trends in Ecology and Evolution*, 34(4), 291-302. doi:10.1016/j.tree.2018.12.008
- Jaric, I., Lennox, R. J., Kalinkat, G., Cvijanovic, G., & Radinger, J. (2019). Susceptibility of European freshwater fish to climate change: Species profiling based on life-history and environmental characteristics. *Global Change Biology*, 25(2), 448-458. doi:10.1111/gcb.14518
- Jechow, A. (2019). Observing the impact of WWF Earth Hour on urban light pollution: a case study in Berlin 2018 using differential photometrie. *Sustainability*, 11(3), 750. doi:10.3390/su11030750
- Jechow, A., & Höller, F. (2019). How dark is a river? artificial light at night in aquatic systems and the need for comprehensive night-time light measurements. *WIREs Water*, 6(6), e1388. doi:10.1002/wat2.1388
- Jechow, A., Höller, F., & Kyba, C. C. M. (2019). Using all-sky differential photometry to investigate how nocturnal clouds darken the night sky in rural areas. *Scientific Reports*, 9, 1391. doi:10.1038/s41598-018-37817-8
- Jeschke, J. M., Börner, K., Stodden, V., & Tockner, K. (2019). Open Access journals need to become first choice, in invasion ecology and beyond. *NeoBiota*, (52), 1-8. doi:10.3897/neobiota.52.39542
- Jiang, Z., Wang, C., Zhou, L., Xiong, W., & Liu, C. (2019). Impacts of pen culture on alpha and beta diversity of fish communities in a large floodplain lake along the Yangtze River. *Fisheries Research*, 210, 41-49. doi:10.1016/j.fishres.2018.10.007
- John, U., Lu, Y., Wohlrb, S., Groth, M., Janouskovec, J., Kohli, G. S., ... Glöckner, G. (2019). An aerobic eukaryotic parasite with functional mitochondria that likely lacks a mitochondrial genome. *Science Advances*, 5(4), eaav110. doi:10.1126/sciadv.aav110
- Johnston, P. R., Paris, V., & Rolff, J. (2019). Immune gene regulation in the gut during metamorphosis in a holo- versus a hemimetabolous insect. *Philosophical Transactions of the Royal Society of London : Ser. B, Biological Sciences*, 374(1783), 20190073. doi:10.1098/rstb.2019.0073
- Jones, K. E., Féret, T., Schmickl, R. E., Dikow, R. B., Funk, V. A., Herrando-Moraira, S., ... Mandel, J. R. (2019). An empirical assessment of a single family-wide hybrid capture locus set at multiple evolutionary timescales in Asteraceae. *Applications in Plant Sciences*, 7(10), e11295. doi:10.1002/aps3.11295
- Kayler, Z. E., Premke, K., Gessner, M. O., Griebler, C., Hilt, S., ... Grossart, H.-P. (2019). Integrating aquatic and terrestrial perspectives to improve insights into organic matter cycling at the landscape scale. *Frontiers in Earth Science*, 7, art. 27. doi:10.3389/feart.2019.00127
- Kelleher, C., Ward, A. S., Knapp, J. L. A., Blaen, P. J., Kurz, M. J., Drummond, J. D., ... Krause, S. (2019). Exploring tracer information and model framework trade-offs to improve estimation of stream transient storage processes. *Water Resources Research*, 55(4), 3481-3501. doi:10.1029/2018WR023585
- Kerkow, A., Wieland, R., Koban, M. B., Höller, F., Jeschke, J. M., Werner, D., & Kampen, H. (2019). What makes the Asian bush mosquito *Aedes japonicus japonicus* feel comfortable in Germany? A fuzzy modelling approach. *Parasites & Vectors*, 12(1), 106. doi:10.1186/s13071-019-3368-0
- Kettner, M. T., Oberbeckmann, S., Labrenz, M., & Grossart, H.-P. (2019). The eukaryotic life on microplastics in brackish ecosystems. *Frontiers in Microbiology*, 10, 538. doi:10.3389/fmicb.2019.00538
- Kiesel, J., Gericke, A., Rathjens, H., Wetzig, A., Kakouei, K., Jähnig, S. C., & Fohrer, N. (2019). Climate change impacts on ecologically relevant hydrological indicators in three catchments in three European ecoregions. *Ecological Engineering*, 127, 404-416. doi:10.1016/j.ecoleng.2018.12.019
- Klamt, A.-M., Hilt, S., Moros, M., Arz, H. W., & Hupfer, M. (2019). The effect of a shift from macrophyte to phytoplankton dominance on phosphorus forms and burial in the sediments of a shallow hard-water lake. *Biogeochemistry*, 143(3), 371-385. doi:10.1007/s10533-019-00567-4
- Klawonn, I., Bonaglia, S., Whitehouse, M. J., Littmann, S., Tienken, D., Kuypers, M. M. M., ... Ploug, H. (2019). Untangling hidden nutrient dynamics: rapid ammonium cycling and single-cell ammonium assimilation in marine plankton communities. *ISME Journal*, 13(8), 1960-1974. doi:10.1038/s41396-019-0386-z
- Kluger, L. C., Kochalski, S., Aguirre-Velarde, A., Vivar, I., & Wolff, M. (2019). Coping with abrupt environmental change: the impact of the coastal El Niño 2017 on artisanal fisheries and mariculture in North Peru. *ICES Journal of Marine Science*, 76(4), 1122-1130. doi:10.1093/icesjms/fsy171
- Kochalski, S., Riepe, C., Fujitani, M., Aas, Ø., & Arlinghaus, R. (2019). Public perception of river fish biodiversity in four European countries. *Conservation Biology*, 33(1), 164-175. doi:10.1111/cobi.13180

- Koeck, B., Zavorka, L., Aldven, D., Näslund, J., Arlinghaus, R., Thörnqvist, P.-O., ... Johnsson, J. I. (2019). Angling selects against active and stress-resistant phenotypes in rainbow trout. *Canadian Journal of Fisheries and Aquatic Sciences*, 76(2), 320-333. doi:10.1139/cjfas-2018-0085
- Kölling, M., Bouimetarhan, I., Bowles, M. W., Felis, T., Goldhammer, T., Hinrichs, K.-U., ... Zabel, M. (2019). Consistent CO₂ release by pyrite oxidation on continental shelves prior to glacial terminations. *Nature Geoscience*, 12(11), 929-934. doi:10.1038/s41561-019-0465-9
- Kolmakova, O., Gladyshev, M. I., Fonvielle, J. A., Ganzert, L., Hornick, T., & Grossart, H.-P. (2019). Effects of zooplankton carcasses degradation on freshwater bacterial community composition and implications for carbon cycling. *Environmental Microbiology*, 21(1), 34-49. doi:10.1111/1462-2920.14418
- Kumar, G., Langa, J., Montes, I., Conklin, D., Kocour, M., Kohlmann, K., & Estonba, A. (2019). A novel transcriptome-derived SNPs array for tench (*Tinca tinca* L.). *PLoS One*, 14(3), e0213992. doi:10.1371/journal.pone.0213992
- Kurvers, R. H. J. M., Herzog, S. M., Hertwig, R., Krause, J., Moussaid, M., Argenziano, G., ... Wolf, M. (2019). How to detect high-performing individuals and groups: decision similarity predicts accuracy. *Science Advances*, 5(11), eaav9011. doi:10.1126/sciadv.aaw9011
- Kyba, C. C. M., & Spitschan, M. (2019). Comment on "Domestic light at night and breast cancer risk: a prospective analysis of 105000 UK women in the Generations Study". *British Journal of Cancer*, 120(2), 276-277. doi:10.1038/s41416-018-0203-x
- Lago, M., Boteler, B., Rouillard, J., Abhold, K., Jähnig, S. C., Iglesias-Campos, A., ... McDonald, H. (2019). Introducing the H2020 AQUACROSS project: knowledge, assessment, and management for AQUATIC biodiversity and ecosystem services ACROSS EU policies. *Science of the Total Environment*, 652, 320-329. doi:10.1016/j.scitotenv.2018.10.076
- Langhans, S. D., Domisch, S., Balbi, S., Delacamara, G., Hermoso, V., Kuemmerlen, M., ... Jähnig, S. C. (2019). Combining eight research areas to foster the uptake of ecosystem-based management in fresh waters. *Aquatic Conservation*, 29(7), 1161-1173. doi:10.1002/aqc.3022
- Langhans, S. D., Jähnig, S. C., Lago, M., Schmidt-Kloiber, A., & Hein, T. (2019). The potential of ecosystem-based management to integrate biodiversity conservation and ecosystem service provision in aquatic ecosystems. *Science of the Total Environment*, 672, 1017-1020. doi:10.1016/j.scitotenv.2019.04.025
- Langhans, S. D., Jähnig, S. C., & Schallenberg, M. (2019). On the use of multicriteria decision analysis to formally integrate community values into ecosystem-based freshwater management. *River Research and Applications*, 35(10), 1666-1676. doi:10.1002/rra.3388
- Larsen, S., Karaus, U., Claret, C., Sporka, F., Hamerlik, L., & Tockner, K. (2019). Flooding and hydrologic connectivity modulate community assembly in a dynamic river-floodplain ecosystem. *PLoS One*, 14(4), e0213227. doi:10.1371/journal.pone.0213227
- Laskowski, K. L., Doran, C., Bierbach, D., Krause, J., & Wolf, M. (2019). Naturally clonal vertebrates are an untapped resource in ecology and evolution research. *Nature Ecology & Evolution*, 3(2), 161-169. doi:10.1038/s41559-018-0775-o
- Lathrop, R. C., Kasprzak, P., Tarvainen, M., Ventelä, A.-M., Keskinen, T., Koschel, R., & Robertson, D. M. (2019). Seasonal epilimnetic temperature patterns and trends in a suite of lakes from Wisconsin (USA), Germany, and Finland. *Inland Waters*, 9(4), 471-488. doi:10.1080/20442041.2019.1637682
- Leppäranta, M., Lindgren, E., Wen, L., & Kirillin, G. (2019). Ice cover decay and heat balance in Lake Kilpisjärvi Arctic tundra. *Journal of Limnology*, 78(2), 163-175. doi:10.4081/jlimnol.2019.1879
- Levin, N., Kyba, C. C. M., & Zhang, Q. (2019). Remote sensing of night lights - beyond DMSP. *Remote Sensing*, 11(12), 1472. doi:10.3390/rs11121472
- Lewandowski, J., Arnon, S., Banks, E. W., Batelaan, O., Betterle, A., Broecker, T., ... Wu, L. (2019). Is the hyporheic zone relevant beyond the scientific community? *Water*, 11(11), 2230. doi:10.3390/w1112230
- Lezcano, M. A., Agha, R., Cirés, S., & Quesada, A. (2019). Spatial-temporal survey of *Microcystis* oligopeptide chemotypes in reservoirs with dissimilar waterbody features and their relation to genetic variation. *Harmful Algae*, 81, 77-85. doi:10.1016/j.hal.2018.11.009
- Liu, H., Zak, D., Rezanezhad, F., & Lennartz, B. (2019). Soil degradation determines release of nitrous oxide and dissolved organic carbon from peatlands. *Environmental Research Letters*, 14(9), art. 094009. doi:10.1088/1748-9326/ab3947
- Lorenz, S., & Wolter, C. (2019). Quantitative response of riverine benthic invertebrates to sediment grain size and shear stress. *Hydrobiologia*, 834(1), 47-61. doi:10.1007/s10750-019-3908-9
- Lundgreen, R. B. C., Jaspers, C., Traving, S. J., Ayala, D. J., Lombard, F., Grossart, H.-P., ... Riemann, L. (2019). Eukaryotic and cyanobacterial communities associated with marine snow particles in the oligotrophic Sargasso Sea. *Scientific Reports*, 9, 8891. doi:10.1038/s41598-019-45146-7
- Ma, X., Hu, W., Smilauer, P., Yin, M., & Wolinska, J. (2019). Daphnia galeata and *D. dentifera* are geographically and ecologically separated whereas their hybrids occur in intermediate habitats: a survey of 44 Chinese lakes. *Molecular Ecology*, 28(4), 785-802. doi:10.1111/mec.14991
- Ma, X., Petrusk, A., Wolinska, J., Hu, W., & Yin, M. (2019). Lineage diversity and reproductive modes of the *Daphnia pulex* group in Chinese lakes and reservoirs. *Molecular Phylogenetics and Evolution*, 130, 424-433. doi:10.1016/j.myprev.2018.08.004
- Maasri, A., Schechner, A. E., Erdenee, B., Dodds, W. K., Chandra, S., Gelhaus, J. K., & Thorp, J. H. (2019). Does diel variation in oxygen influence taxonomic and functional diversity of stream macroinvertebrates? *Freshwater Science*, 38(4), 692-701. doi:10.1086/705916
- Maasri, A., Thorp, J. H., Gelhaus, J. K., Tromboni, F., Chandra, S., & Kenner, S. J. (2019). Communities associated with the Functional Process Zone scale: a case study of stream macroinvertebrates in endorheic drainages. *Science of the Total Environment*, 677, 184-193. doi:10.1016/j.scitotenv.2019.04.394
- Machado, A. A. d. S., Lau, C. W., Kloas, W., Bergmann, J., Bachelier, J. B., Faltin, E., ... Rillig, M. C. (2019). Microplastics can change soil properties and affect plant performance. *Environmental Science and Technology*, 53(10), 6044-6052. doi:10.1021/acs.est.9b01339
- Machado, A. A. d. S., Wood, C. M., & Kloas, W. (2019). Novel concepts for novel entities: updating ecotoxicology for a sustainable anthropocene. *Environmental Science and Technology*, 53(9), 4680-4682. doi:10.1021/acs.est.9b02031
- Mack, L., Andersen, H. E., Beklioglu, M., Bucak, T., Couture, R.-M., Cremona, F., ... Birk, S. (2019). The future depends on what we do today: projecting Europe's surface water quality into three different future scenarios. *Science of the Total Environment*, 668, 470-484. doi:10.1016/j.scitotenv.2019.02.251
- Marce, R., Obrador, B., Gomez-Gener, L., Catalan, N., Koschorreck, M., Arce, M. I., ... Von Schiller, D. (2019). Emissions from dry inland waters are a blind spot in the global carbon cycle. *Earth-Science Reviews*, 188, 240-248. doi:10.1016/j.earscirev.2018.11.012
- Marshall, J. A. R., Kurvers, R. H. J. M., Krause, J., & Wolf, M. (2019). Quorums enable optimal pooling of independent judgements in biological systems. *eLife*, 8, e40368. doi:10.7554/eLife.40368
- Martin, R. M., Moniruzzaman, M., Mucci, N. C., Willis, A., Woodhouse, J. N., Xian, Y., ... Wilhelm, S. W. (2019). Cylindrospermopsis raciborskii virus and host: genomic characterization and ecological relevance. *Environmental Microbiology*, 21(6), 1942-1956. doi:10.1111/1462-2920.14425
- Masigol, H., Khodaparast, S. A., Woodhouse, J. N., Rojas-Jimenez, K., Fonvielle, J. A., Rezakhani, F., ... Grossart, H.-P. (2019). The contrasting roles of aquatic fungi and oomycetes in the degradation and transformation of polymeric organic matter. *Limnology and Oceanography*, 64(6), 2662-2678. doi:10.1002/limo.11242
- Matern, S., Emmrich, M., Klefeth, T., Wolter, C., Niklaus, R., Wegener, N., & Arlinghaus, R. (2019). Effect of recreational-fisheries management on fish biodiversity in gravel pit lakes, with contrasts to unmanaged lakes. *Journal of Fish Biology*, 94(6), 865-881. doi:10.1111/jfb.13989
- Matsumura, S., Beardmore, B., Haider, W., Dieckmann, U., & Arlinghaus, R. (2019). Ecological, angler, and spatial heterogeneity drive social and ecological outcomes in an integrated landscape model of freshwater recreational fisheries. *Reviews in Fisheries Science & Aquaculture*, 27(2), 170-197. doi:10.1080/23308249.2018.1540549
- Mehner, T., Rapp, T., Monk, C. T., Beck, M. E., Trudeau, A., Kiljunen, M., ... Arlinghaus, R. (2019). Feeding aquatic ecosystems: whole-lake experimental addition of angler's ground bait strongly affects omnivorous fish despite low contribution to lake carbon budget. *Ecosystems*, 22(2), 346-362. doi:10.1007/s10021-018-0273-x
- Meyerhoff, J., Klefeth, T., & Arlinghaus, R. (2019). The value artificial lake ecosystems provide to recreational anglers: implications for management of biodiversity and outdoor recreation. *Journal of Environmental Management*, 252, 109580. doi:10.1016/j.jenvman.2019.109580

- Monsees, H., Suhl, J., Paul, M., Kloas, W., Dannehl, D., & Wuertz, S. (2019). Lettuce (*Lactuca sativa*, variety Salanova) production in decoupled aquaponic systems: same yield and similar quality as in conventional hydroponic systems but drastically reduced greenhouse gas emissions by saving inorganic fertilizer. *PLoS One*, 14(6), e0218368. doi:10.1371/journal.pone.0218368
- Mousavi-Sabet, H., Vatandoust, S., Geiger, M. F., & Freyhof, J. (2019). Paracobitis abrishamchianai, a new crested loach from the southern Caspian Sea basin (Teleostei: Nemacheilidae). *Zootaxa*, 4545(3), 375-388. doi:10.11646/zootaxa.4545.3-3
- Mwanake, R. M., Gettel, G. M., Aho, K. S., Namwaya, D. W., Masese, F. O., Butterbach-Bahl, K., & Raymond, P. A. (2019). Land use, not stream order, controls N₂O concentration and flux in the upper Mara River Basin, Kenya. *Journal of Geophysical Research: Biogeosciences*, 124(11), 3491-3506. doi:10.1029/2019JG005063
- Neill, A. J., Tetzlaff, D., Strachan, N. J. C., & Soulsby, C. (2019). To what extent does hydrological connectivity control dynamics of faecal indicator organisms in streams? Initial hypothesis testing using a tracer-aided model. *Journal of Hydrology*, 570, 423-435. doi:10.1016/j.jhydrol.2018.12.066
- Niroumand-Jadidi, M., Pahlevan, N., & Vitti, A. (2019). Mapping substrate types and compositions in shallow streams. *Remote Sensing*, 11(3), 262. doi:10.3390/rs11030262
- Noriega-Ortega, B. E., Wienhausen, G., Mentges, A., Dittmar, T., Simon, M., & Niggemann, J. (2019). Does the chemodiversity of bacterial exometabolomes sustain the chemodiversity of marine dissolved organic matter? *Frontiers in Microbiology*, 10, 215. doi:10.3389/fmicb.2019.00215
- Numberger, D., Dreier, C., Vullioud, C., Gabriel, G., Greenwood, A. D., & Grossart, H.-P. (2019). Correction: Recovery of influenza A viruses from lake water and sediments by experimental inoculation. *PLoS One*, 14(6), e0218882. doi:10.1371/journal.pone.0218882
- Numberger, D., Dreier, C., Vullioud, C., Gabriel, G., Greenwood, A. D., & Grossart, H.-P. (2019). Recovery of influenza A viruses from lake water and sediments by experimental inoculation. *PLoS One*, 14(5), e0216880. doi:10.1371/journal.pone.0216880
- Numberger, D., Ganzert, L., Zoccarato, L., Mühlendorfer, K., Sauer, S., Grossart, H.-P., & Greenwood, A. D. (2019). Characterization of bacterial communities in wastewater with enhanced taxonomic resolution by full-length 16S rRNA sequencing. *Scientific Reports*, 9, 9673. doi:10.1038/s41598-019-46015-z
- Numberger, D., Riedel, T., McEwen, G., Nübel, U., Frentrup, M., Schober, I., ... Greenwood, A. D. (2019). Genomic analysis of three Clostridioides difficile isolates from urban water sources. *Anaerobe*, 56, 22-26. doi:10.1016/j.anaerobe.2019.01.002
- Ortiz-Canavate, B. K., Wolinska, J., & Agha, R. (2019). Fungicides at environmentally relevant concentrations can promote the proliferation of toxic bloom-forming cyanobacteria by inhibiting natural fungal parasite epidemics. *Chemosphere*, 229, 18-21. doi:10.1016/j.chemosphere.2019.04.203
- Panagopoulos, Y., Stefanidis, K., Faneca Sanchez, M., Sperna Weiland, F., Van Beek, R., Venohr, M., ... Birk, S. (2019). Pan-European calculation of hydrologic stress metrics in rivers: a first assessment with potential connections to ecological status. *Water*, 11(4), 703. doi:10.3390/w11040703
- Parasiewicz, P., King, E. L., Webb, J. A., Piniewski, M., Comoglio, C., Wolter, C., ... Suska, K. (2019). The role of floods and droughts on riverine ecosystems under a changing climate. *Fisheries Management and Ecology*, 26(6), 461-473. doi:10.1111/fme.12388
- Perillon, C., & Hilt, S. (2019). Groundwater discharge gives periphyton a competitive advantage over macrophytes. *Aquatic Botany*, 154, 72-80. doi:10.1016/j.aquabot.2019.01.004
- Perkins, A. K., Ganzert, L., Rojas-Jimenez, K., Fonvielle, J. A., Hose, G. C., & Grossart, H.-P. (2019). Highly diverse fungal communities in carbon-rich aquifers of two contrasting lakes in Northeast Germany. *Fungal Ecology*, 41, 116-125. doi:10.1016/j.funeco.2019.04.004
- Perkins, D. M., Perna, A., Adrian, R., Cermeno, P., Gaedke, U., Huete-Ortega, M., ... Yvon-Durocher, G. (2019). Energetic equivalence underpins the size structure of tree and phytoplankton communities. *Nature Communications*, 10, art. 255. doi:10.1038/s41467-018-08039-3
- Philippe, H., Pousta, A. J., Chiodin, M., Hoff, K. J., Dessimoz, C., Tomiczek, B., ... Telford, M. J. (2019). Mitigating anticipated effects of systematic errors supports sister-group relationship between Xenacoelomorpha and Ambulacraria. *Current Biology*, 29(11), 1818-1826. doi:10.1016/j.cub.2019.04.009
- Piovano, T. I., Tetzlaff, D., Carey, S. K., Shatilla, N. J., Smith, A. A., & Soulsby, C. (2019). Spatially distributed tracer-aided runoff modelling and dynamics of storage and water ages in a permafrost-influenced catchment. *Hydrology and Earth System Sciences*, 23(6), 2507-2523. doi:10.5194/hess-23-2507-2019
- Pjevac, P., Dyksma, S., Goldhammer, T., Mujakic, I., Koblizek, M., Mußmann, M., ... Orlić, S. (2019). In situ abundance and carbon fixation activity of distinct anoxygenic phototrophs in the stratified seawater lake Rogoznica. *Environmental Microbiology*, 21(10), 3896-3908. doi:10.1111/1462-2920.14739
- Polcar, T., Schäfer, F. J., Panama, E., Meyer, S., Teerlinck, S., Toner, D., & Zarski, D. (2019). Recent progress in European percid culture production technology - tackling bottlenecks. *Aquaculture International*, 27(5), 1151-1174. doi:10.1007/s10499-019-00433-y
- Polverino, G., Karakaya, M., Spinello, C., Soman, V., & Porfirio, M. (2019). Behavioural and life-history responses of mosquitofish to biologically inspired and interactive robotiv predators. *Journal of the Royal Society Interface*, 16(158), 20190359. doi:10.1098/rsif.2019.0359
- Polverino, G., Palmas, B. M., Evans, J. P., & Gasparini, C. (2019). Individual plasticity in alternative reproductive tactics declines with social experience in male guppies. *Animal Behaviour*, 148, 113-121. doi:10.1016/j.anbehav.2018.12.014
- Porst, G., Brauns, M., Irvine, K., Solimini, A., Sandin, L., Pusch, M., & Miler, O. (2019). Effects of shoreline alteration and habitat heterogeneity on macroinvertebrate community composition across European lakes. *Ecological Indicators*, 98, 285-296. doi:10.1016/j.ecolind.2018.10.062
- Premier, V., Machado, A. A. d. S., Mitchell, S., Zarfl, C., Spencer, K. L., & Toffolon, M. (2019). A model-based analysis of metal fate in the Thames estuary. *Estuaries and Coasts*, 42(4), 1185-1201. doi:10.1007/s12237-019-00544-y
- Pullen, C. E., Arlinghaus, R., Lennox, R. J., & Cooke, S. J. (2019). Telemetry reveals the movement, fate, and lure-shedding of northern pike (*Esox lucius*) that break the line and escape recreational fisheries capture. *Fisheries Research*, 211, 176-182. doi:10.1016/j.fishres.2018.11.013
- Radinger, J., Alcaraz-Hernández, J. D., & García-Berthou, E. (2019). Environmental filtering governs the spatial distribution of alien fishes in a large, human-impacted Mediterranean river. *Diversity and Distributions*, 25(5), 701-714. doi:10.1111/ddi.12895
- Reid, A. J., Carlson, A. K., Creed, I. F., Eliason, E. J., Gell, P. A., Johnson, P. T. J., ... Cooke, S. J. (2019). Emerging threats and persistent conservation challenges for freshwater biodiversity. *Biological Reviews*, 94(3), 849-873. doi:10.1111/brv.12480
- Reitzel, K., Bennett, W. W., Berger, N., Brownlie, W. J., Bruun, S., Christensen, M. L., ... Metson, G. S. (2019). New training to meet the global phosphorus challenge. *Environmental Science and Technology*, 53(15), 8479-8481. doi:10.1021/acs.est.9b03519
- Riepe, C., Meyerhoff, J., Fujitani, M., Aas, Ø., Radinger, J., Kochalski, S., & Arlinghaus, R. (2019). Managing river fish biodiversity generates substantial economic benefits in four European countries. *Environmental Management*, 63(6), 759-776. doi:10.1007/s00267-019-0160-z
- Rojas-Jimenez, K., Rieck, A., Wurzbacher, C. M., Jürgens, K., Labrenz, M., & Grossart, H.-P. (2019). A salinity threshold separating fungal communities in the Baltic Sea. *Frontiers in Microbiology*, 10, 680. doi:10.3389/fmicb.2019.00680
- Rolff, J., Johnston, P. R., & Reynolds, S. (2019). Complete metamorphosis of insects. *Philosophical Transactions of the Royal Society of London : Series B, Biological Sciences*, 374(1783), 20190063. doi:10.1098/rstb.2019.0063
- Rozenblut-Koscisty, B., Ogielska, M., Hahn, J., Kleemann, D., Kossakowski, R., Tamschick, S., ... Stöck, M. (2019). Impacts of the synthetic androgen Trenbolone on gonad differentiation and development: comparisons between three deeply diverged anuran families. *Scientific Reports*, 9, 9623. doi:10.1038/s41598-019-45985-4
- Sac, G., Özulug, M., Elp, M., Gaffaroglu, M., Ünal, S., Ayata, M. K., ... Freyhof, J. (2019). New records of *Pseudophoxinus firati* from Turkey (Teleostei: Leuciscidae). *Journal of Applied Ichthyology*, 35(3), 769-774. doi:10.1111/jai.13869

- Sáenz, J. S., Airo, A., Schulze-Makuch, D., Schloter, M., & Vestergaard, G. (2019). Functional traits co-occurring with mobile genetic elements in the microbiome of the Atacama Desert. *Diversity*, 11(11), 205. doi:10.3390/d11110205
- Samia, D. S. M., Bessa, E., Blumstein, D. T., Nunes, J. A. C. C., Azzurro, E., Morroni, L., ... Geffroy, B. (2019). A meta-analysis of fish behavioural reaction to underwater human presence. *Fish and Fisheries*, 20(5), 817-829. doi:10.1111/faf.12378
- Sanchez de Miguel, A., Kyba, C. C. M., Aube, M., Zamorano, J., Cardiel, N., Tapia, C., ... Gaston, K. J. (2019). Colour remote sensing of the impact of artificial light at night (I): the potential of the International Space Station and other DSLR-based platforms. *Remote Sensing of Environment*, 224, 92-103. doi:10.1016/j.rse.2019.01.035
- Sanchez-Murillo, R., Duran-Quesada, A. M., Esquivel-Hernandez, G., Rojas-Cantillano, D., Birkel, C., Welsh, K., ... Cobb, K. M. (2019). Deciphering key processes controlling rainfall isotopic variability during extreme tropical cyclones. *Nature Communications*, 10, art. 4321. doi:10.1038/s41467-019-12062-3
- Sbragaglia, V., Alos, J., Fromm, K., Monk, C. T., Diaz-Gil, C., Uusi-Heikkilä, S., ... Arlinghaus, R. (2019). Experimental size-selective harvesting behavioral types of a social fish. *Transactions of the American Fisheries Society*, 148(3), 552-568. doi:10.1002/tafs.10160
- Sbragaglia, V., Gliese, C., Bierbach, D., Honsey, A. E., Uusi-Heikkilä, S., & Arlinghaus, R. (2019). Size-selective harvesting fosters adaptations in mating behaviour and reproductive allocation, affecting sexual selection in fish. *Journal of Animal Ecology*, 88(9), 1343-1354. doi:10.1111/1365-2656.13032
- Sbragaglia, V., Nunez, J. D., Dominoni, D. M., Coco, S., Fanelli, E., Azzurro, E., ... Aguzzi, J. (2019). Annual rhythms of temporal niche partitioning in the Sparidae family are correlated to different environmental variables. *Scientific Reports*, 9, 1708. doi:10.1038/s41598-018-37954-0
- Schäfer, F. J., Tielmann, M., Overton, J. L., Krüger, A., Wuertz, S., Kloas, W., ... Meyer, S. (2019). Fate or independency: is batch-specific larval performance determined by egg traits?: a case study in farmed pike-perch (*Sander lucioperca*). *Aquaculture International*, 27(4), 957-969. doi:10.1007/s10499-019-00356-8
- Schaper, J. L., Posselt, M., Bouchez, C., Jäger, A., Nützmann, G., Putschew, A., ... Lewandowski, J. (2019). Fate of trace organic compounds in the hyporheic zone: influence of retardation, the benthic biolayer, and organic carbon. *Environmental Science and Technology*, 53(8), 4224-4234. doi:10.1021/acs.est.8b06231
- Scharfenberger, U., Jeppesen, E., Bekiroglu, M., Sondergaard, M., Angeler, D. G., Cakiroglu, A. I., ... Adrian, R. (2019). Effects of trophic status, water level, and temperature on shallow lake metabolism and metabolic balance: a standardized pan-European mesocosm experiment. *Limnology and Oceanography*, 64(2), 616-631. doi:10.1002/lno.11064
- Scheliga, B., Tetzlaff, D., Nützmann, G., & Soulsby, C. (2019). Assessing runoff generation in riparian wetlands: monitoring groundwater-surface water dynamics at the micro-catchment scale. *Environmental Monitoring and Assessment*, 191(2), 116. doi:10.1007/s10661-019-7237-2
- Schmidt, S. R., Lischeid, G., Hintze, T., & Adrian, R. (2019). Disentangling limnological processes in the time-frequency domain. *Limnology and Oceanography*, 64(2), 423-440. doi:10.1002/lno.11049
- Schmidt-Kloiber, A., Bremerich, V., De Wever, A., Jähnig, S. C., Martens, K., Strackbein, J., ... Hering, D. (2019). The Freshwater Information Platform: a global online network providing data, tools and resources for science and policy support. *Hydrobiologia*, 838(1), 1-11. doi:10.1007/s10750-019-03985-5
- Schuwirth, N., Borgwardt, F., Domisch, S., Friedrichs, M., Kattwinkel, M., Kneis, D., ... Vermeiren, P. (2019). How to make ecological models useful for environmental management. *Ecological Modelling*, 411, art. 108784. doi:10.1016/j.ecolmodel.2019.108784
- Seebacher, F., & Krause, J. (2019). Epigenetics of social behaviour. *Trends in Ecology and Evolution*, 34(9), 818-830. doi:10.1016/j.tree.2019.04.017
- Seena, S., Bärlocher, F., Sobral, O., Gessner, M. O., Dudgeon, D., McKie, B. G., ... Graca, M. A. S. (2019). Biodiversity of leaf litter fungi in streams along a latitudinal gradient. *Science of the Total Environment*, 661, 306-315. doi:10.1016/j.scitotenv.2019.01.122
- Sehonova, P., Zikova, A., Blahova, J., Svobodova, Z., Chloupek, P., & Kloas, W. (2019). mRNA expression of antioxidant and biotransformation enzymes in zebrafish (*Danio rerio*) embryos after exposure to the tricyclic antidepressant amitriptyline. *Chemosphere*, 217, 516-521. doi:10.1016/j.chemosphere.2018.10.208
- Selmezy, G. B., Abonyi, A., Krienitz, L., Kasprzak, P., Casper, P., Telcs, A., ... Padisák, J. (2019). Old sins have long shadows: climate change weakens efficiency of trophic coupling of phyto- and zooplankton in a deep oligo-mesotrophic lowland lake (Stechlin, Germany); a causality analysis. *Hydrobiologia*, 831(1), 101-117. doi:10.1007/s10750-018-3793-7
- Seltmann, C. T., Kraemer, B. M., & Adrian, R. (2019). The importance of nonrandom and random trait patterns in phytoplankton communities: a case study from Lake Müggelsee, Germany. *Theoretical Ecology*, 12(4), 501-512. doi:10.1007/s10208-019-0424-5
- Shatwell, T., & Köhler, J. (2019). Decreased nitrogen loading controls summer cyanobacterial blooms without promoting nitrogen-fixing taxa: Long-term response of a shallow lake. *Limnology and Oceanography*, 64(S1), S166-S178. doi:10.1002/lno.11002
- Shatwell, T., Thiery, W., & Kirillin, G. (2019). Future projections of temperature and mixing regime of European temperate lakes. *Hydrology and Earth System Sciences*, 23(3), 1533-1551. doi:10.5194/hess-23-1533-2019
- Shivaramu, S., Santo, C. E., Kaspar, V., Bierbach, D., Gefßner, J., Rodina, M., ... Wuertz, S. (2019). Critical swimming speed of sterlet (*Acipenser ruthenus*): Does intraspecific hybridization affect swimming performance? *Journal of Applied Ichthyology*, 35(1), 217-225. doi:10.1111/jai.13834
- Shumilova, O., Tockner, K., Gurnell, A., Langhans, S. D., Righetti, M., Lucia, A., & Zarfl, C. (2019). Floating matter: a neglected component of the ecological integrity of rivers. *Aquatic Sciences*, 81(2), art. 25. doi:10.1007/s00027-019-0619-2
- Shumilova, O., Zak, D., Datry, T., Von Schiller, D., Corti, R., Foulquier, A., ... Zarfl, C. (2019). Simulating rewetting events in intermittent rivers and ephemeral streams: a global analysis of leached nutrients and organic matter. *Global Change Biology*, 25(5), 1591-1611. doi:10.1111/gcb.14537
- Simoncelli, S., Kirillin, G., Tolomeev, A. P., & Grossart, H.-P. (2019). A low-cost underwater particle tracking velocimetry system for measuring in situ particle flux and sedimentation rate in low-turbulence environments. *Limnology and Oceanography: Methods*, 17(12), 665-681. doi:10.1002/lom3.10341
- Singh, T., Wu, L., Gomez-Velez, J. D., Lewandowski, J., Hannah, D. M., & Krause, S. (2019). Dynamis hyporheic zones: exploring the role of peak flow events on bedform-induced hyporheic exchange. *Water Resources Research*, 55(1), 218-235. doi:10.1029/2018WR022993
- Smiialek, N., Pander, J., Mueller, M., Van Treeck, R., Wolter, C., & Geist, J. (2019). Do we know enough to save European riverine fish?: a systematic review on autecological requirements during critical life stages of 10 rheophilic species at risk. *Sustainability*, 11(18), 5011. doi:10.3390/su11185011
- Smith, A. A., Tetzlaff, D., Laudon, H., Maneta, M. P., & Soulsby, C. (2019). Assessing the influence of soil freeze-thaw cycles on catchment water storage-flux-age interactions using a tracer-aided ecohydrological model. *Hydrology and Earth System Sciences*, 23(8), 3319-3334. doi:10.5194/hess-23-3319-2019
- Snijders, L., Kurvers, R. H. J. M., Krause, S., Tump, A. N., Ramnarine, I. W., & Krause, J. (2019). Females facilitate male food patch discovery in a wild fish population. *Journal of Animal Ecology*, 88(12), 1950-1960. doi:10.1111/1365-2656.13086
- Steger, K., Kim, A. T., Ganzert, L., Grossart, H.-P., & Smart, D. R. (2019). Floodplain soil and its bacterial composition are strongly affected by depth. *FEMS Microbiology Ecology*, 95(3), fzo14. doi:10.1093/femsec
- Stöck, M., Fakharzadeh, F., Kuhl, H., Rozenblut-Koscisty, B., Leinweber, S., Patel, R., ... Förster, D. W. (2019). Shedding light on a secretive tertiary urodelean relict: hynobiid salamanders (*Paradactyodon persicus s. l.*) from Iran, illuminated by phylogeographic, developmental and transcriptomic data. *Genes*, 10(4), 306. doi:10.3390/genes10040306
- Stöck, M., Reisch, F., Elmeros, M., Gabriel, D., Kloas, W., Kreuz, E., ... Esther, A. (2019). The potential of VKORC1 polymorphisms in Mustelidae for evolving anticoagulant resistance through selection along the food chain. *PLoS One*, 14(8), e0221706. doi:10.1371/journal.pone.0221706

- Strayer, D. L., Adamovich, B. V., Adrian, R., Aldridge, D. C., Balogh, C., Burlakova, L. E., ... Jeschke, J. M. (2019). Long-term population dynamics of dreissenid mussels (*Dreissena polymorpha* and *D. rostriformis*): a cross-system analysis. *Ecosphere*, 10(4), e02701. doi:10.1002/ecs2.2701
- Su, D., Hu, X., Wen, L., Lyu, S., Gao, X., Zhao, L., ... Kirillin, G. (2019). Numerical study on the response of the largest lake in China to climate change. *Hydrology and Earth System Sciences*, 23(4), 2093-2109. doi:10.5194/hess-23-2093-2019
- Sukhodolov, A., & Suhodolova, T. (2019). Dynamics of flow at concordant gravel bed river confluences: effects of junction angle and momentum flux ratio. *Journal of Geophysical Research: Earth Surface*, 124(2), 588-615. doi:10.1029/2018JF004648
- Swirlies, F., Wuertz, S., Baßmann, B., Orban, A., Schäfer, N., Brunner, R. M., ... Rebl, A. (2019). Identification of molecular stress indicators in pikeperch *Sander lucioperca* correlating with rising water temperatures. *Aquaculture*, 501, 260-271. doi:10.1016/j.aquaculture.2018.11.043
- Tang, K. W., Backhaus, L., Riemann, L., Koski, M., Grossart, H.-P., Munk, P., & Nielsen, T. G. (2019). Copepod carcasses in the subtropical convergence zone of the Sargasso Sea: implications for microbial community composition, system respiration and carbon flux. *Journal of Plankton Research*, 41(4), 549-560. doi:10.1093/plankt/fbz038
- Taube, R., Fabian, J., Van den Wyngaert, S., Agha, R., Baschien, C., Gerphagnon, M., ... Premke, K. (2019). Potentials and limitations of quantification of fungi in freshwater environments based on PLFA profiles. *Fungal Ecology*, 41, 256-268. doi:10.1016/j.funeco.2019.05.002
- Teuber, K., Broecker, T., Bentzen, T. R., Stephan, D., Nützmann, G., & Hinkelmann, R. (2019). Using computational fluid dynamics to describe H₂S mass transfer across the water-air interface in sewers. *Water Science and Technology*, 79(10), 1934-1946. doi:10.2166/wst.2019.193
- Thomas, V., Wang, Y., Van Rooij, P., Verbrugghe, E., Baláz, V., Bosch, J., ... Pasmans, F. (2019). Mitigating Batrachochytrium salamandrinorum in Europe. *Amphibia-Reptilia*, 40(3), 265-290. doi:10.1163/15685381-20191157
- Tiegs, S. D., Costello, D. M., Isken, M. W., Woodward, G., McIntyre, P. B., Gessner, M. O., ... Zwart, J. A. (2019). Global patterns and drivers of ecosystem functioning in rivers and riparian zones. *Science Advances*, 5(1), eaavo486. doi:10.1126/sciadv.aavo486
- Tsoboi, J.-i., Kaji, K., Baba, S., & Arlinghaus, R. (2019). Trade-offs in the adaptation towards hatchery and natural conditions drive survival, migration, and angling vulnerability in a territorial fish in the wild. *Canadian Journal of Fisheries and Aquatic Sciences*, 76(10), 1757-1767. doi:10.1139/cjfas-2018-0256
- Turko, P., Wolinska, J., Tellenbach, C., Dziuba, M. K., Monchamp, M.-E., & Spaak, P. (2019). Using DNA from formaldehyde-preserved Daphnia to reconstruct past populations. *Hydrobiologia*, 841(1), 153-161. doi:10.1007/s10750-019-04015-o
- Tydecks, L., Ibelings, B. W., & Tockner, K. (2019). A global survey of freshwater biological field stations. *River Research and Applications*, 35(8), 1314-1324. doi:10.1002/rra.3476
- Valdesalici, S., Brahimi, A., & Freyhof, J. (2019). First record of *Aphanius almirensis* from Italy and notes on the distribution of *Aphanius fasciatus* (Teleostei: Apaniidae). *Journal of Applied Ichthyology*, 35(2), 541-550. doi:10.1111/jai.13873
- Valerio, G., Pilotto, M., Lau, M. P., & Hupfer, M. (2019). Oxycline oscillations induced by internal waves in deep Lake Iseo. *Hydrology and Earth System Sciences*, 23(3), 1763-1777. doi:10.5194/hess-23-1763-2019
- Van Grunsven, R. H. A., Becker, J., Peter, S., Heller, S., & Höller, F. (2019). Long-term comparison of attraction of flying insects to streetlights after the transition from traditional light sources to light-emitting diodes in urban and peri-urban settings. *Sustainability*, 11(22), 6198. doi:10.3390/su11226198
- Van Looy, K., Tonkin, J. D., Flory, M., Leigh, C., Soininen, J., Larsen, S., ... Wolter, C. (2019). The three Rs of river ecosystem resilience: resources, recruitment, and refugia. *River Research and Applications*, 35(2), 107-120. doi:10.1002/rra.3396
- Vivas Munoz, J. C., Bierbach, D., & Knopf, K. (2019). Eye fluke (*Tylodelphys clavata*) infection impairs visual ability and hampers foraging success in European perch. *Parasitology Research*, 118(9), 2531-2541. doi:10.1007/s00436-019-06389-5
- Volkov, S., Bogdanov, S., Zdorovenkov, R., Zdorovenkova, G., Terzhevik, A., Palshin, N., ... Kirillin, G. (2019). Fine scale structure of convective mixed layer in ice-covered lake. *Environmental Fluid Mechanics*, 19(3), 751-764. doi:10.1007/s10652-018-9652-2
- Von Schiller, D., Datry, T., Corti, R., Foulquier, A., Tockner, K., Gessner, M. O., ... Zak, D. (2019). Sediment respiration pulses in intermittent rivers and ephemeral streams. *Global Biogeochemical Cycles*, 33(10), 1251-1263. doi:10.1029/2019GB006276
- Vu, T. T., Kiesel, J., Guse, B., & Fohrer, N. (2019). Towards an improved understanding of hydrological change - linking hydrologic metrics and multiple change point tests. *Journal of Water and Climate Change*, 10(4), 743-758. doi:10.2166/wcc.2018.068
- Wallerius, M. L., Gräns, A., Koeck, B., Berger, D., Sandblom, E., Ekström, A., ... Johnsson, J. I. (2019). Socially induced stress and behavioural inhibition in response to angling exposure in rainbow trout. *Fisheries Management and Ecology*, 26(6), 611-620. doi:10.1111/fme.12373
- Wang, H., Tetzlaff, D., Buttle, J., Carey, S. K., Laudon, H., McNamara, J. P., ... Soulsby, C. (2019). Climate-phenology-hydrology interactions in northern high latitudes: assessing the value of remote sensing data in catchment ecohydrological studies. *Science of the Total Environment*, 656, 19-28. doi:10.1016/j.scitotenv.2018.11.361
- Wang, H., Tetzlaff, D., & Soulsby, C. (2019). Hysteretic response of sap flow in Scots pine (*Pinus sylvestris*) to meteorological forcing in a humid low-energy headwater catchment. *Ecohydrology*, 12(6), e2125. doi:10.1002/eco.2125
- Wanka, K. M., Schulz, C., Kloas, W., & Wuertz, S. (2019). Administration of host-derived probiotics does not affect utilization of soybean meal enriched diets in juvenile turbot (*Scophthalmus maximus*). *Journal of Applied Ichthyology*, 35(4), 1004-1015. doi:10.1111/jai.13929
- Ward, A. S., Wondzell, S. M., Schmadel, N. M., Herzog, S., Zarnetske, J. P., Baranov, V. A., ... Wisnoski, N. I. (2019). Spatial and temporal variation in river corridor exchange across a 5th-order mountain stream network. *Hydrology and Earth System Sciences*, 23(12), 5199-5225. doi:10.5194/hess-23-5199-2019
- Ward, A. S., Zarnetske, J. P., Baranov, V. A., Blaen, P. J., Brekenfeld, N., Chu, R., ... Orsini, L. (2019). Co-located contemporaneous mapping of morphological, hydrological, chemical, and biological conditions in a 5th-order mountain stream network, Oregon, USA. *Earth System Science Data*, 11(4), 1567-1581. doi:10.5194/essd-11-1567-2019
- Wegner, B., Kronsbein, A. L., Gillefalk, M., Van de Weyer, K., Köhler, J., Funke, E., ... Hilt, S. (2019). Mutual facilitation among invading Nuttall's waterweed and Quagga mussels. *Frontiers in Plant Science*, 10, 789. doi:10.3389/fpls.2019.00789
- Weigand, H., Beermann, A. J., Ciampor, F., Costa, F. O., Csabai, Z., Duarte, S., ... Ekrem, T. (2019). DNA barcode reference libraries for the monitoring of aquatic biota in Europe: gap-analysis and recommendations for future work. *Science of the Total Environment*, 678, 499-524. doi:10.1016/j.scitotenv.2019.04.247
- Wolter, C., & Schormaker, C. (2019). Fish passes design discharge requirements for successful operation. *River Research and Applications*, 35(10), 1697-1701. doi:10.1002/rra.3399
- Wu, X., Noss, C., Liu, L., & Lorke, A. (2019). Effects of small-scale turbulence at the air-water interface on microcystis surface scum formation. *Water Research*, 167, 115091. doi:10.1016/j.watres.2019.115091
- Wurzbacher, C. M., Larsson, E., Bengtsson-Palme, J., Van den Wyngaert, S., Svantesson, S., Kristiansson, E., ... Nilsson, R. H. (2019). Introducing ribosomal tandem repeat barcoding for fungi. *Molecular Ecology Resources*, 19(1), 118-127. doi:10.1111/1755-0998.12944
- Zajicek, P., & Wolter, C. (2019). The effects of recreational and commercial navigation on fish assemblages in large rivers. *Science of the Total Environment*, 646, 1304-1314. doi:10.1016/j.scitotenv.2018.07.403
- Zak, D., Stutter, M., Jensen, H. S., Egemose, S., Carstensen, M. V., Audet, J., ... Kronvang, B. (2019). An assessment of the multifunctionality of integrated buffer zones in Northwestern Europe. *Journal of Environmental Quality*, 48(2), 362-375. doi:10.2134/jeq2018.05.0216
- Zarfl, C., Berlekamp, J., He, F., Jähnig, S. C., Darwall, W., & Tockner, K. (2019). Future large hydropower dams impact global freshwater megafauna. *Scientific Reports*, 9, 18531. doi:10.1038/s41598-019-54980-8

Referierte Zeitschriftenbeiträge ohne Impact-Faktor

- Harrison, H. L., Kochalski, S., Arlinghaus, R., & Aas, Ø. (2019). 'Do you care about the river?': a critical discourse analysis and lessons for management of social conflict over Atlantic salmon (*Salmo salar*) conservation in the case of voluntary stocking in Wales. *People and Nature*, 1(4), 507-523. doi:10.1002/pan3.10049

- Hornung, L., Podschun, S. A., & Pusch, M. T. (2019). Linking ecosystem services and measures in river and floodplain management. *Ecosystems and People*, 15(1), 214-231. doi:10.1080/26395916.2019.1656287
- Hyde, E., Frank, S., Barentine, J. C., Küchly, H. U., & Kyba, C. C. M. (2019). Testing for changes in light emissions from certified International Dark Sky Places. *International Journal of Sustainable Lighting*, 21(1), 11-19. doi:10.26607/ijsl.v2i1.92
- Jechow, A., & Höller, F. (2019). Snowglow - the amplification of skylight by snow and clouds can exceed full moon illuminance in suburban areas. *Journal of Imaging*, 5(8), 69. doi:10.3390/jimaging5080069
- Jechow, A., Kyba, C. C. M., & Höller, F. (2019). Beyond all-sky: assessing ecological light pollution using multi-spectral full-sphere fisheye lens imaging. *Journal of Imaging*, 5(4), 46. doi:10.3390/jimaging5040046
- Jeschke, J. M., Lokatis, S., Bartram, I., & Tockner, K. (2019). Knowledge in the dark: scientific challenges and ways forward. *Facets*, 4(1), 423-441. doi:10.1139/facets-2019-0007
- Körmle, D., Lakner, S., & Yu, X. (2019). The impact of Natura 2000 designation on agricultural land rents in Germany. *Land Use Policy*, 87, 104013. doi:10.1016/j.landusepol.2019.05.032
- Kyba, C. C. M., Giuliani, G., Franziskakis, F., Tockner, K., & Lacroix, P. (2019). Artisanal and small-scale mining sites in the Democratic Republic of the Congo are not associated with nighttime light emissions. *J: Multidisciplinary Open Access Journal*, 2(2), 152-161. doi:10.3390/j2020013
- Maasri, A. (2019). A global and unified trait database for aquatic macroinvertebrates: the missing piece in a global approach. *Frontiers in Environmental Science*, 7, art. 65. doi:10.3389/fenvs.2019.00065
- Osman, A. G. M., Gadel-Rab, A. G., Mahmoud, F. S., Hamed, H. S., Elshehaby, M. M., Ali, A. E., & Kloas, W. (2019). Blood characteristics and tissue histology of Nile tilapia (*Oreochromis niloticus niloticus*) fed a diet containing cheese skipper (*Piophila casei*) larvae. *Scholarly Journal of Food and Nutrition*, 2(3), 219-228. doi:10.32474/SJFN.2019.02.000137
- Osman, A. G. M., Wuertz, S., & Mohammed-Geba, K. (2019). Lead-induced heat shock protein (HSP70) and metallothionein (MT) gene expression in the embryos of African catfish *Clarias gariepinus* (Burchell, 1822). *Scientific African*, 3, e00056. doi:10.1016/j.sciaf.2019.e00056
- Said, R. E. M., Hasieb, H. E., Moustafa, M. A., Soliman, S. M. E., Kloas, W., & Osman, A. G. M. (2019). Haematological, serological and genotoxic findings in the African catfish *Clarias gariepinus* after the administration of copper nanoparticles and penconazole. *EC Veterinary Science*, 4(10), 1-14.
- Salk, K. R., Fink, P., Filstrup, C. T., Rose, K. C., & Grossart, H.-P. (2019). ASLO activities focus on meeting the needs of early career members. *Limnology and Oceanography Bulletin*, 28(2), 76-78. doi:10.1002/lob.10316
- Santi, F., Bierbach, D., Schartl, M., & Riesch, R. (2019). Life histories of guppies (*Poecilia reticulata* Peters, 1869; Poeciliidae) from the Pitch Lake in Trinidad. *Caribbean Journal of Science*, 49(2-3), S. 255-262. doi:10.18475/cjos.v4g12.a13
- Schroer, S., Häffner, E., & Höller, F. (2019). Impact of artificial illumination on the development of a leafmining moth in urban trees. *International Journal of Sustainable Lighting*, 21(1), 1-10. doi:10.26607/ijsl.v2i1.86
- Soulsby, C., Comte, J.-C., Geris, J., Gibbins, C. N., & Tetzlaff, D. (2019). Hydrology at Aberdeen - thinking about water locally and globally. *Scottish Geographical Journal*, 135(3-4), 267-286. doi:10.1080/14702541.2019.1695894
- Stibor, H., Stockenreiter, M., Nejstgaard, J. C., Ptacnik, R., & Sommer, U. (2019). Trophic switches in pelagic systems. *Current Opinion in Systems Biology*, 13, 108-114. doi:10.1016/j.coisb.2018.11.006
- Suhl, J., Baganz, D., Kloas, W., Dannehl, D., Jobs, S., Scheibe, G., & Schmidt, U. (2019). The potential of double recirculating aquaponic systems for intensive tomato production. *Acta Horticulturae*, 1242, 679-686. doi:10.17660/ActaHortic.2019.1242.100
- Suhl, J., Oppedijk, B., Baganz, D., Kloas, W., Schmidt, U., & Van Duijn, B. (2019). Oxygen consumption in recirculating nutrient film technique in aquaponics. *Scientia Horticulturae*, 255, 281-291. doi:10.1016/j.scienta.2019.05.033
- Theuerkauf, M., Engelbrecht, E., Dräger, N., Hupfer, M., Mrotzek, A., Prager, A., & Scharnweber, T. (2019). Using annual resolution pollen analysis to synchronize varve and tree-ring records. *Quaternary*, 2(3), 23. doi:10.3390/quat2030023
- Vu, T. T., Kiesel, J., Guse, B., & Fohrer, N. (2019). Analysis of the occurrence, robustness and characteristics of abrupt changes in streamflow time series under future climate change. *Climate Risk Management*, 26, 100198. doi:10.1016/j.crm.2019.100198
- Witzel, O., Wilm, S., Karimanzira, D., & Baganz, D. (2019). Controlling and regulation of integrated aquaponic production systems: an approach for a management execution system (MES). *Information Processing in Agriculture*, 6(3), 326-334. doi:10.1016/j.inpa.2019.03.007
- Wolter, C., & Faró, D. (2019). Herausforderungen bei der Bewertung von Fischschutzmaßnahmen in großen Flüssen. *Wasserwirtschaft*, 109(10), 40-41.
- Zak, D., Roth, C., Unger, V., Goldhammer, T., Fenner, N., Freeman, C., & Jurasiczki, G. (2019). Unraveling the importance of polyphenols for microbial carbon mineralization in rewetted riparian peatlands. *Frontiers in Environmental Science*, 7, art. 147. doi:10.3389/fenvs.2019.00147

Nicht-referierte Zeitschriftenbeiträge

- Arlinghaus, R. (2019). Fischereigesetz Hamburg - wegweisend! *Blinker*, 8, 43-43.
- Arlinghaus, R. (2019). Wann ist ein Bestand überfisch? *Blinker*, 10, 42-46.
- Arlinghaus, R. (2019). Warum wir angeln. *Blinker*, 4, 54-56.
- Arlinghaus, R., & Monk, C. T. (2019). Karpers volgen: waar zwemmen ze? *Karper: Internationaal Karpermagazine*(118), 36-44.
- Arlinghaus, R., & Monk, C. T. (2019). Wo schwimmen sie denn? *Blinker*, 2, 42-47.
- Arlinghaus, R., Monk, C. T., & Carle, S. (2019). Barsche zuppeln auf wissenschaftlich! *Blinker*, 12, 54-57.
- Arlinghaus, R., Pieterik, T., & Klefoth, T. (2019). Fang Dir Deinen Hecht - auf wissenschaftlich! *Blinker*, 5, 42-47.
- Arlinghaus, R., & Riepe, C. (2019). Das Bild vom Angler: wie die Öffentlichkeit über uns denkt. *Blinker*, 3, 40-45.
- Arlinghaus, R., Riepe, C., & Kochalski, S. (2019). Das Jahr des Lachses. *Blinker*, 7, 54-57.
- Gefßer, J., Hein, T., & Friedrich, T. (2019). Flagship species of the Danube - will there be sturgeons in the future? *Danube Watch*, 1, 10-11.
- Jeschke, J. M. (2019). Vom Marmorkrebs und anderen Einwanderern. *Forschung: das Magazin der Deutschen Forschungsgemeinschaft*, 4, 12-15.
- Kochalski, S., Riepe, C., & Arlinghaus, R. (2019). Das Jahr des Lachses 2019 aus Sicht der Bevölkerung. *Fischer und Teichwirt*, 70(8), 287-291.
- Meinelt, T., & Bartschat, P. (2019). Neue Erkenntnisse zum Tierwohl in der Aquakultur: 10. Büsumer Fischtag, am 06.06.2019 im mariCUBE, Büsum. *Fischer und Teichwirt*, 70(9), 335-337.
- Meinelt, T., Bartschat, P., & Naas, C. (2019). De-minimis-Verordnung und Berufsausbildung in der Fischerei: Brandenburger Landesfischereitag 2019, Seddiner See, 18.09.2019. *Fischer und Teichwirt*, 70(12), 443-446.
- Meinelt, T., Bartschat, P., Naas, C., & Stummer, A. (2019). Berufsausbildung in der Fischerei, Fischwirte, Fischwirtinnen dringend gesucht: Brandenburger Landesfischereitag 2019, Seddiner See, 18.09.2019. *Fischer und Angler*, 4, 10-12.
- Meinelt, T., Bartschat, P., & Wichmann, T. (2019). Fachtag Fischerei vom 05.-06.03.2019 in Königswartha: "Im 70sten Jahr des Bestehens von Fischereischule und Forschungseinrichtung in Königswartha". *Fischer und Teichwirt*, 70(7), 252-255.
- Meinelt, T., Bartschat, P., Wichmann, T., & Stummer, A. (2019). Im 70. Jahr des Bestehens von Fischereischule und Forschungseinrichtung in Königswartha: Fachtag Fischerei vom 05.-06.03.2019 in Königswartha. *Fischer und Angler*, 2, 6-8.
- Naas, C., & Meinelt, T. (2019). Effekte von Eisen auf Fische. *Fischer und Teichwirt*, 70(10), 375-377.
- Naas, C., Meinelt, T., & Bartschat, P. (2019). Fortbildungsveranstaltung des Instituts für Binnenfischerei e.V. Potsdam-Sacrow am 19.09.2019 in Seddin. *Fischer und Teichwirt*, 70(12), 446-447.
- Pusch, M. T., Podschun, S. A., Albert, C., Damm, C., Dehnhardt, A., Fischer, C., ... Venohr, M. (2019). Ökosystemleistungen von Flussauen bewerten: der RESI-Ansatz. *Auenmagazin*, 16, 6-10.
- Schroer, S. (2019). Verlust der Nacht: ein Forschungsnetzwerk zur Reduzierung der Lichtverschmutzung. *Politik & Kultur*, 12, 23.

- Straus, D. L., & Meinelt, T. (2019). An international research collaboration on peracetic acid: a retrospective summary. *World Aquaculture*, 50(1), 52-56.
- Velthuis, M., Kosten, S., Hilt, S., Verdonschot, P. F. M., & Bakker, E. S. (2019). Kunnen wateren met veel ondergedoken waterplanten CO₂ uit de atmosfeer vastleggen? *H₂O Water Matters*, 9, 3-6.
- Wiegner, K., Klefboth, T., & Arlinghaus, R. (2019). Bringt totes Holz Leben in den Baggersee? *Der Laubfrosch: das Wissensmagazin der VTA-Gruppe*, 83, 12-13.
- Wolter, C. (2019). Temperaturtoleranz einheimischer Fischarten der unteren Oder. *Nationalpark-Jahrbuch Unteres Odertal*, 15, 84-89.

Monographien

- Schroer, S., Huggins, B., Böttcher, M., & Höller, F. (2019). Leitfaden zur Neugestaltung und Umrüstung von Außenbeleuchtungsanlagen: Anforderungen an eine nachhaltige Außenbeleuchtung. Bonn: BfN. (BfN-Schriften ; 543)
- Skov, C., Gundelund, C., Arlinghaus, R., Hartill, B., Olesen, H. J., Aarestrup, K., & Koed, A. (2019). Lystfiskeri langs kysten på fyn om foråret: fiskeindsats, fangster, demografi, adfærd og holdninger. Silkeborg. (DTU-Aqua-rapport ; 339)
- Voigt, C. C., Azam, C., Dekker, J., Ferguson, J., Fritze, M., Gazaryan, S., ... Zagmajster, M. (2019). Leitfaden für die Berücksichtigung von Fledermäusen bei Beleuchtungsprojekten. Bonn. (EUROBATS Publication Series ; 8).

Buchbeiträge

- Arlinghaus, R. (2019). Bioökonomische Ansätze für ein nachhaltiges Management von wildlebenden Süßwasserfischen. In Ökologie und Bioökonomie (pp. 59-70). München: Pfeil.
- Bochinski, E., Bacha, G., Eiselein, V., Walles, T. J. W., Nejstgaard, J. C., & Sikora, T. (2019). Deep active learning for in situ plankton classification. In Z. Zhang (Ed.), Pattern recognition and information forensics (pp. 5-15). Springer.
- Casper, P., & Koschel, R. (2019). Limnologische Forschungsstation am Stechlinsee. In G. Friedrich & U. Kosmac (Eds.), Geschichte der Limnologischen Stationen Deutschlands (pp. 197-207). Stuttgart: Schweizerbart.
- Delaide, B. P. L., Monsees, H., Gross, A., & Goddek, S. (2019). Aerobic and anaerobic treatments for aquaponic sludge reduction and mineralisation. In S. Goddek (Ed.), Aquaponics food production systems (pp. 247-266). Cham: Springer.
- Gefßner, J., Acolas, M.-L., Bronzi, P., & Lassalle, G. (2019). Sturgeon. In K. Wilson & L. Veneranta (Eds.), Data-limited diadromous species : a review of European status (pp. 65-76). Copenhagen: ICES.
- Hänel, A., & Schroer, S. (2019). Astronomen als naturtouristische Zielgruppe. In H. Rein & A. Schuler (Eds.), Naturtourismus (pp. 190-196). München: UVK Verlag.
- Hupfer, M., Kleeberg, A., & Lewandowski, J. (2019). Internal pools and fluxes of phosphorus in dimictic lake Arendsee, Northeastern Germany. In A. D. Steinman & B. M. Spears (Eds.), Internal phosphorus loading in lakes: causes, case studies, and management (pp. 169-185). Plantation: J. Ross Publ.
- Hupfer, M., Reitzel, K., & Grüneberg, B. (2019). Methods for measuring internal loading. In A. D. Steinman & B. M. Spears (Eds.), Internal phosphorus loading in lakes: causes, case studies, and management (pp. 15-44). Plantation: J. Ross Publ.
- Jeschke, J. M., Gabriel, W., & Kokko, H. (2019). R-strategists/K-strategists. In B. D. Fath (Ed.), Encyclopedia of ecology (Vol. 3, pp. 193-201). Oxford: Elsevier.
- Joyce, A., Goddek, S., Kotzen, B., & Wuertz, S. (2019). Aquaponics: closing the cycle on limited water, land and nutrient resources. In S. Goddek (Ed.), Aquaponics food production systems (pp. 19-34). Cham: Springer.
- Kiesel, J., Guse, B., & Bormann, H. (2019). Projecting the consequences of climate change on river ecosystems. In S. Sabater (Ed.), Multiple stressors in river ecosystems (pp. 281-301). San Diego: Elsevier.
- Kochalski, S., Riepe, C., & Arlinghaus, R. (2019). Der Lachs aus Sicht der Bevölkerung. In D. Angelfischerverband (Ed.), Der Atlantische Lachs (*Salmo salar*): Fisch des Jahres 2019 (pp. 31-39). Offenbach am Main.
- Schroer, S., & Hänel, A. (2019). Sternenparks. In H. Rein & A. Schuler (Eds.), Naturtourismus (pp. 83-88). München: UVK Verl.
- Wuertz, S., Güralp, H., Psenicka, M., & Chebanov, M. (2019). Sex determination in sturgeon. In Sex control in aquaculture (Vol. 2, pp. 645-669). Hoboken: Wiley.
- Zoccarato, L., & Grossart, H.-P. (2019). Relationship between lifestyle and structure of bacterial communities and their functionality in aquatic systems. In C. J. Hurst (Ed.), The structure and function of aquatic microbial communities (pp. 405-431). Cham: Springer.