

Christiane Zarfl

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

7,147
citations

147566

31
h-index

114278

63
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66
all docs

66
docs citations

66
times ranked

8813
citing authors

#	ARTICLE	IF	CITATIONS
1	Using the WWF Water Risk Filter to Screen Existing and Projected Hydropower Projects for Climate and Biodiversity Risks. <i>Water (Switzerland)</i> , 2022, 14, 721.	1.2	7
2	The delicate balance of river sediments. <i>Science</i> , 2022, 376, 1385-1386.	6.0	4
3	Combined effects of life-history traits and human impact on extinction risk of freshwater megafauna. <i>Conservation Biology</i> , 2021, 35, 643-653.	2.4	18
4	Integrated Impact Assessment for Sustainable Hydropower Planning in the Vjosa Catchment (Greece). <i>Journal of Environmental Management</i> , 2021, 287, 111757.	1.6	15
5	Suspended Particulate Matter—A Source or Sink for Chemical Mixtures of Organic Micropollutants in a Small River under Baseflow Conditions?. <i>Environmental Science & Technology</i> , 2021, 55, 5106-5116.	4.6	24
6	Characterization of a landslide-triggered debris flow at a rainforest-covered mountain region in Brazil. <i>Natural Hazards</i> , 2021, 108, 3021-3043.	1.6	13
7	Global Dam Watch: curated data and tools for management and decision making. <i>Environmental Research: Infrastructure and Sustainability</i> , 2021, 1, 033003.	0.9	7
8	Impacts of loss of free-flowing rivers on global freshwater megafauna. <i>Biological Conservation</i> , 2021, 263, 109335.	1.9	23
9	Recommendations for Improving Methods and Models for Aquatic Hazard Assessment of Ionizable Organic Chemicals. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 269-286.	2.2	42
10	Structural changes of the microplankton community following a pulse of inorganic nitrogen in a eutrophic river. <i>Limnology and Oceanography</i> , 2020, 65, S264.	1.6	5
11	Comparison of environmental tracers including organic micropollutants as groundwater exfiltration indicators into a small river of a karstic catchment. <i>Hydrological Processes</i> , 2020, 34, 4712-4726.	1.1	4
12	Exploring the Concepts of Concentration Addition and Independent Action Using a Linear Low-Dose Effect Mixture Model. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 2552-2559.	2.2	37
13	Analyzing Particle-Associated Pollutant Transport to Identify In-Stream Sediment Processes during a High Flow Event. <i>Water (Switzerland)</i> , 2020, 12, 1794.	1.2	13
14	Influence of Emission Sources and Tributaries on the Spatial and Temporal Patterns of Micropollutant Mixtures and Associated Effects in a Small River. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 1382-1391.	2.2	15
15	SMART Research: Toward Interdisciplinary River Science in Europe. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	6
16	Temporal and spatial variable in-stream attenuation of selected pharmaceuticals. <i>Science of the Total Environment</i> , 2020, 741, 139514.	3.9	16
17	Dams and protected areas: Quantifying the spatial and temporal extent of global dam construction within protected areas. <i>Conservation Letters</i> , 2020, 13, e12719.	2.8	38
18	Rethinking megafauna. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192643.	1.2	35

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19	River dam impacts on biogeochemical cycling. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 103-116.	12.2	372
20	Impact of Scientific Scrutiny after the 2016 Braunsbach Flash Flood on Flood-Risk Management in the State of Baden-Württemberg, Germany. <i>Water (Switzerland)</i> , 2020, 12, 1165.	1.2	3
21	Impacts of current and future large dams on the geographic range connectivity of freshwater fish worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3648-3655.	3.3	227
22	European rivers are fragmented by many more barriers than had been recorded. <i>Nature</i> , 2020, 588, 395-396.	13.7	6
23	The global decline of freshwater megafauna. <i>Global Change Biology</i> , 2019, 25, 3883-3892.	4.2	158
24	Designing field-based investigations of organic micropollutant fate in rivers. <i>Environmental Science and Pollution Research</i> , 2019, 26, 28633-28649.	2.7	3
25	Projections of declining fluvial sediment delivery to major deltas worldwide in response to climate change and anthropogenic stress. <i>Environmental Research Letters</i> , 2019, 14, 084034.	2.2	106
26	Combined Ion-Trapping and Mass Balance Models To Describe the pH-Dependent Uptake and Toxicity of Acidic and Basic Pharmaceuticals in Zebrafish Embryos (<i>Danio rerio</i>). <i>Environmental Science & Technology</i> , 2019, 53, 7877-7886.	4.6	27
27	Microplastic-Contaminant Interactions: Influence of Nonlinearity and Coupled Mass Transfer. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1635-1644.	2.2	29
28	Promising techniques and open challenges for microplastic identification and quantification in environmental matrices. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3743-3756.	1.9	145
29	Turnover and legacy of sediment-associated PAH in a baseflow-dominated river. <i>Science of the Total Environment</i> , 2019, 671, 754-764.	3.9	19
30	A Model-Based Analysis of Metal Fate in the Thames Estuary. <i>Estuaries and Coasts</i> , 2019, 42, 1185-1201.	1.0	10
31	Mitochondrial Toxicity of Selected Micropollutants, Their Mixtures, and Surface Water Samples Measured by the Oxygen Consumption Rate in Cells. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1000-1011.	2.2	12
32	Future large hydropower dams impact global freshwater megafauna. <i>Scientific Reports</i> , 2019, 9, 18531.	1.6	96
33	Simulating rewetting events in intermittent rivers and ephemeral streams: A global analysis of leached nutrients and organic matter. <i>Global Change Biology</i> , 2019, 25, 1591-1611.	4.2	71
34	Unravelling metal mobility under complex contaminant signatures. <i>Science of the Total Environment</i> , 2018, 622-623, 373-384.	3.9	25
35	Microplastics as an emerging threat to terrestrial ecosystems. <i>Global Change Biology</i> , 2018, 24, 1405-1416.	4.2	1,303
36	A combined experimental and modeling study to evaluate pH-dependent sorption of polar and non-polar compounds to polyethylene and polystyrene microplastics. <i>Environmental Sciences Europe</i> , 2018, 30, 30.	2.6	106

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37	Global Water Transfer Megaprojects: A Potential Solution for the Water-Food-Energy Nexus?. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	120
38	Combining in vitro reporter gene bioassays with chemical analysis to assess changes in the water quality along the Ammer River, Southwestern Germany. <i>Environmental Sciences Europe</i> , 2018, 30, 20.	2.6	27
39	Contributions of catchment and in-stream processes to suspended sediment transport in a dominantly groundwater-fed catchment. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3903-3921.	1.9	14
40	Microplastics Reduce Short-Term Effects of Environmental Contaminants. Part I: Effects of Bisphenol A on Freshwater Zooplankton Are Lower in Presence of Polyamide Particles. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 280.	1.2	98
41	Microplastics Reduce Short-Term Effects of Environmental Contaminants. Part II: Polyethylene Particles Decrease the Effect of Polycyclic Aromatic Hydrocarbons on Microorganisms. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 287.	1.2	96
42	The connectivity between soil erosion and sediment entrapment in reservoirs. <i>Current Opinion in Environmental Science and Health</i> , 2018, 5, 53-59.	2.1	28
43	Freshwater megafauna diversity: Patterns, status and threats. <i>Diversity and Distributions</i> , 2018, 24, 1395-1404.	1.9	59
44	Projections of historical and 21st century fluvial sediment delivery to the Ganges-Brahmaputra-Meghna, Mahanadi, and Volta deltas. <i>Science of the Total Environment</i> , 2018, 642, 105-116.	3.9	45
45	Disappearing giants: a review of threats to freshwater megafauna. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1208.	2.8	61
46	Low-Dose Effects: Nonmonotonic Responses for the Toxicity of a <i>Bacillus thuringiensis</i> Biocide to <i>Daphnia magna</i> . <i>Environmental Science & Technology</i> , 2017, 51, 1679-1686.	4.6	36
47	Shift in Mass Transfer of Wastewater Contaminants from Microplastics in the Presence of Dissolved Substances. <i>Environmental Science & Technology</i> , 2017, 51, 12254-12263.	4.6	118
48	Freshwater Megafauna: Flagships for Freshwater Biodiversity under Threat. <i>BioScience</i> , 2017, 67, 919-927.	2.2	68
49	Short-term exposure with high concentrations of pristine microplastic particles leads to immobilisation of <i>Daphnia magna</i> . <i>Chemosphere</i> , 2016, 153, 91-99.	4.2	367
50	Metal fate and effects in estuaries: A review and conceptual model for better understanding of toxicity. <i>Science of the Total Environment</i> , 2016, 541, 268-281.	3.9	237
51	A Global View on Future Major Water Engineering Projects. <i>Water Resources Development and Management</i> , 2016, , 47-64.	0.3	6
52	A global boom in hydropower dam construction. <i>Aquatic Sciences</i> , 2015, 77, 161-170.	0.6	1,512
53	An index-based framework for assessing patterns and trends in river fragmentation and flow regulation by global dams at multiple scales. <i>Environmental Research Letters</i> , 2015, 10, 015001.	2.2	439
54	PBT borderline chemicals under REACH. <i>Environmental Sciences Europe</i> , 2013, 25, .	2.6	7

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55	Response to comment on "Identification of substances with potential for long-range transport as possible substances of very high concern". Environmental Science and Pollution Research, 2013, 20, 5878-5878.	2.7	0
56	Response to Comment on "Screening Criteria for Long-Range Transport Potential of Organic Substances in Water". Environmental Science & Technology, 2013, 47, 3544-3544.	4.6	1
57	Identification of substances with potential for long-range transport as possible substances of very high concern. Environmental Science and Pollution Research, 2012, 19, 3152-3161.	2.7	18
58	Sorption of polycyclic aromatic hydrocarbons (PAHs) to low and high density polyethylene (PE). Environmental Science and Pollution Research, 2012, 19, 1296-1304.	2.7	165
59	Screening Criteria for Long-Range Transport Potential of Organic Substances in Water. Environmental Science & Technology, 2011, 45, 10075-10081.	4.6	19
60	Microplastics in oceans. Marine Pollution Bulletin, 2011, 62, 1589-1591.	2.3	99
61	Are marine plastic particles transport vectors for organic pollutants to the Arctic?. Marine Pollution Bulletin, 2010, 60, 1810-1814.	2.3	300
62	A conceptual model describing the fate of sulfadiazine and its metabolites observed in manure-amended soils. Chemosphere, 2009, 77, 720-726.	4.2	62
63	A mechanistical model for the uptake of sulfonamides by bacteria. Chemosphere, 2008, 70, 753-760.	4.2	69
64	Growth-inhibitory effects of sulfonamides at different pH: Dissimilar susceptibility patterns of a soil bacterium and a test bacterium used for antibiotic assays. Chemosphere, 2008, 72, 836-843.	4.2	35