

# Stefan Krause

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8388192/stefan-krause-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135  
papers

3,653  
citations

31  
h-index

56  
g-index

183  
ext. papers

4,678  
ext. citations

6  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
135	Microplastic accumulation in riverbed sediment via hyporheic exchange from headwaters to mainstems.. <i>Science Advances</i> , <b>2022</b> , 8, eabi9305	14.3	2
134	A systematic approach to understand hydrogeochemical dynamics in large river systems: Development and application to the River Ganges (Ganga) in India.. <i>Water Research</i> , <b>2022</b> , 211, 118054	12.5	0
133	Restoration impacts on rates of denitrification and greenhouse gas fluxes from tropical coastal wetlands. <i>Science of the Total Environment</i> , <b>2022</b> , 803, 149577	10.2	2
132	Illuminating the invisible water crisis to address global water pollution challenges. <i>Hydrological Processes</i> , <b>2022</b> , 36,	3.3	0
131	Modeling Contaminant Microbes in Rivers During Both Baseflow and Stormflow. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	1
130	Macrophyte Controls on Urban Stream Microbial Metabolic Activity. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 4585-4596	10.3	1
129	Toward a Generalizable Framework of Disturbance Ecology Through Crowdsourced Science. <i>Frontiers in Ecology and Evolution</i> , <b>2021</b> , 9,	3.7	11
128	BIFoR FACE: Water-Soil-Vegetation-Atmosphere data from a temperate deciduous forest catchment, including under elevated CO <sub>2</sub> . <i>Hydrological Processes</i> , <b>2021</b> , 35, e14096	3.3	2
127	How daily groundwater table drawdown affects the diel rhythm of hyporheic exchange. <i>Hydrology and Earth System Sciences</i> , <b>2021</b> , 25, 1905-1921	5.5	1
126	From water2me to water4all: Democratizing the discussion of global water futures through crowdsourcing of individual water values. <i>Hydrological Processes</i> , <b>2021</b> , 35, e14134	3.3	
125	High-Frequency Monitoring Reveals Multiple Frequencies of Nitrogen and Carbon Mass Balance Dynamics in a Headwater Stream. <i>Frontiers in Water</i> , <b>2021</b> , 3,	2.6	2
124	Increasing nutrient inputs risk a surge of nitrous oxide emissions from global mangrove ecosystems. <i>One Earth</i> , <b>2021</b> , 4, 742-748	8.1	1
123	Transformation of organic micropollutants along hyporheic flow in bedforms of river-simulating flumes. <i>Scientific Reports</i> , <b>2021</b> , 11, 13034	4.9	1
122	The riverine bioreactor: An integrative perspective on biological decomposition of organic matter across riverine habitats. <i>Science of the Total Environment</i> , <b>2021</b> , 772, 145494	10.2	3
121	An Untargeted Thermogravimetric Analysis-Fourier Transform Infrared-Gas Chromatography-Mass Spectrometry Approach for Plastic Polymer Identification. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 8721-8729	10.3	3
120	Nano and microplastic interactions with freshwater biota - Current knowledge, challenges and future solutions. <i>Environment International</i> , <b>2021</b> , 152, 106504	12.9	26
119	Green roof vegetation management alters potential for water quality and temperature mitigation. <i>Ecohydrology</i> , <b>2021</b> , 14, e2321	2.5	1

118	Emerging organic contaminants in groundwater under a rapidly developing city (Patna) in northern India dominated by high concentrations of lifestyle chemicals. <i>Environmental Pollution</i> , <b>2021</b> , 268, 115765	9.3	12
117	Detection limits are central to improve reporting standards when using Nile red for microplastic quantification. <i>Chemosphere</i> , <b>2021</b> , 263, 127953	8.4	24
116	Gathering at the top? Environmental controls of microplastic uptake and biomagnification in freshwater food webs. <i>Environmental Pollution</i> , <b>2021</b> , 268, 115750	9.3	22
115	The influence of system heterogeneity on peat-surface temperature dynamics. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 024002	6.2	0
114	Hydrological, physicochemical and metabolic signatures in groundwater and snowmelt streams in the Japanese Alps. <i>Journal of Hydrology</i> , <b>2021</b> , 600, 126560	6	1
113	Improve performance and robustness of knowledge-based FUZZY LOGIC habitat models. <i>Environmental Modelling and Software</i> , <b>2021</b> , 144, 105138	5.2	0
112	Collaboration and infrastructure is needed to develop an African perspective on micro(nano)plastic pollution. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 021002	6.2	8
111	Citizen science reveals microplastic hotspots within tidal estuaries and the remote Scilly Islands, United Kingdom. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 161, 111776	6.7	10
110	River temperature research and practice: Recent challenges and emerging opportunities for managing thermal habitat conditions in stream ecosystems. <i>Science of the Total Environment</i> , <b>2020</b> , 736, 139679	10.2	23
109	Effects of Successive Peak Flow Events on Hyporheic Exchange and Residence Times. <i>Water Resources Research</i> , <b>2020</b> , 56, e2020WR027113	5.4	9
108	Seasonal variability of sediment controls of nitrogen cycling in an agricultural stream. <i>Biogeochemistry</i> , <b>2020</b> , 148, 31-48	3.8	10
107	Moving beyond the Technology: A Socio-technical Roadmap for Low-Cost Water Sensor Network Applications. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9145-9158	10.3	8
106	Impact of Flow Alteration and Temperature Variability on Hyporheic Exchange. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026225	5.4	8
105	A distributed heat pulse sensor network for thermo-hydraulic monitoring of the soil subsurface. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , <b>2020</b> , 53, 352-365	1.4	6
104	Building socio-hydrological resilience Improving capacity for building a socio hydrological system resilience Safety in Extreme Environments, <b>2020</b> , 2, 205-218	0.8	2
103	Adding our leaves: A community-wide perspective on research directions in ecohydrology. <i>Hydrological Processes</i> , <b>2020</b> , 34, 1665-1673	3.3	1
102	Social media sows consensus in disturbance ecology. <i>Nature</i> , <b>2020</b> , 577, 170	50.4	2
101	The method controls the story - Sampling method impacts on the detection of pore-water nitrogen concentrations in streambeds. <i>Science of the Total Environment</i> , <b>2020</b> , 709, 136075	10.2	1

100	Proglacial groundwater storage dynamics under climate change and glacier retreat. <i>Hydrological Processes</i> , <b>2020</b> , 34, 5456-5473	3.3	4
99	Instream wood increases riverbed temperature variability in a lowland sandy stream. <i>River Research and Applications</i> , <b>2020</b> , 36, 1529-1542	2.3	3
98	Significance of Hyporheic Exchange for Predicting Microplastic Fate in Rivers. <i>Environmental Science and Technology Letters</i> , <b>2020</b> , 7, 727-732	11	23
97	Characteristics of free air carbon dioxide enrichment of a northern temperate mature forest. <i>Global Change Biology</i> , <b>2020</b> , 26, 1023-1037	11.4	8
96	Bacterial Diversity Controls Transformation of Wastewater-Derived Organic Contaminants in River-Simulating Flumes. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 5467-5479	10.3	20
95	Low-Cost Environmental Sensor Networks: Recent Advances and Future Directions. <i>Frontiers in Earth Science</i> , <b>2019</b> , 7,	3.5	27
94	Evaluating a Coupled Phenology-Surface Energy Balance Model to Understand Stream-Subsurface Temperature Dynamics in a Mixed-Use Farmland Catchment. <i>Water Resources Research</i> , <b>2019</b> , 55, 1675-1697	5.4	10
93	Streambed Organic Matter Controls on Carbon Dioxide and Methane Emissions from Streams. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 2364-2374	10.3	23
92	Future evolution and uncertainty of river flow regime change in a deglaciating river basin. <i>Hydrology and Earth System Sciences</i> , <b>2019</b> , 23, 1833-1865	5.5	9
91	Human domination of the global water cycle absent from depictions and perceptions. <i>Nature Geoscience</i> , <b>2019</b> , 12, 533-540	18.3	124
90	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , <b>2019</b> , 64, 1141-1158	3.5	259
89	Revealing chlorinated ethene transformation hotspots in a nitrate-impacted hyporheic zone. <i>Water Research</i> , <b>2019</b> , 161, 222-231	12.5	7
88	Exploring Tracer Information and Model Framework Trade-Offs to Improve Estimation of Stream Transient Storage Processes. <i>Water Resources Research</i> , <b>2019</b> , 55, 3481-3501	5.4	16
87	Seasonal variability of sediment controls of carbon cycling in an agricultural stream. <i>Science of the Total Environment</i> , <b>2019</b> , 688, 732-741	10.2	12
86	Revision of biological indices for aquatic systems: A ridge-regression solution. <i>Ecological Indicators</i> , <b>2019</b> , 106, 105478	5.8	7
85	A water cycle for the Anthropocene. <i>Hydrological Processes</i> , <b>2019</b> , 33, 3046-3052	3.3	28
84	Simple yet effective modifications to the operation of the Sediment Microplastic Isolation unit to avoid polyvinyl chloride (PVC) contamination. <i>MethodsX</i> , <b>2019</b> , 6, 2656-2661	1.9	6
83	Identification of floodplain and riverbed sediment heterogeneity in a meandering UK lowland stream by ground penetrating radar. <i>Journal of Applied Geophysics</i> , <b>2019</b> , 171, 103863	1.7	4

82	Is the Hyporheic Zone Relevant beyond the Scientific Community?. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 2230	3	51
81	Co-located contemporaneous mapping of morphological, hydrological, chemical, and biological conditions in a 5th-order mountain stream network, Oregon, USA. <i>Earth System Science Data</i> , <b>2019</b> , 11, 1567-1581	10.5	8
80	Spatial and temporal variation in river corridor exchange across a 5th-order mountain stream network. <i>Hydrology and Earth System Sciences</i> , <b>2019</b> , 23, 5199-5225	5.5	7
79	Reply to 'Pseudoreplication and greenhouse-gas emissions from rivers'. <i>Nature Communications</i> , <b>2019</b> , 10, 5369	17.4	
78	Solute Transport and Transformation in an Intermittent, Headwater Mountain Stream with Diurnal Discharge Fluctuations. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 2208	3	7
77	Using recirculating flumes and a response surface model to investigate the role of hyporheic exchange and bacterial diversity on micropollutant half-lives. <i>Environmental Sciences: Processes and Impacts</i> , <b>2019</b> , 21, 2093-2108	4.3	18
76	Dynamic Hyporheic Zones: Exploring the Role of Peak Flow Events on Bedform-Induced Hyporheic Exchange. <i>Water Resources Research</i> , <b>2019</b> , 55, 218-235	5.4	30
75	Rivervis: A tool for visualising river ecosystems. <i>Computers and Geosciences</i> , <b>2019</b> , 123, 59-64	4.5	2
74	Groundwater flooding: Ecosystem structure following an extreme recharge event. <i>Science of the Total Environment</i> , <b>2019</b> , 652, 1252-1260	10.2	17
73	Developing composite indicators for ecological water quality assessment based on network interactions and expert judgment. <i>Environmental Modelling and Software</i> , <b>2019</b> , 115, 51-62	5.2	7
72	A multiscale statistical method to identify potential areas of hyporheic exchange for river restoration planning. <i>Environmental Modelling and Software</i> , <b>2019</b> , 111, 311-323	5.2	20
71	Woody debris is related to reach-scale hotspots of lowland stream ecosystem respiration under baseflow conditions. <i>Ecohydrology</i> , <b>2018</b> , 11, e1952	2.5	24
70	Disturbance Impacts on Thermal Hot Spots and Hot Moments at the Peatland-Atmosphere Interface. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 185-193	4.9	5
69	Low flow controls on stream thermal dynamics. <i>Limnologica</i> , <b>2018</b> , 68, 157-167	2	7
68	Water sensor network applications: Time to move beyond the technical?. <i>Hydrological Processes</i> , <b>2018</b> , 32, 2612-2615	3.3	7
67	Riparian Corridors: A New Conceptual Framework for Assessing Nitrogen Buffering Across Biomes. <i>Frontiers in Environmental Science</i> , <b>2018</b> , 6,	4.8	39
66	Thermal sensitivity of CO and CH emissions varies with streambed sediment properties. <i>Nature Communications</i> , <b>2018</b> , 9, 2803	17.4	29
65	Natural attenuation of chlorinated ethenes in hyporheic zones: A review of key biogeochemical processes and in-situ transformation potential. <i>Water Research</i> , <b>2018</b> , 128, 362-382	12.5	51

64	Mesocosm experiments reveal the direction of groundwater-surface water exchange alters the hyporheic refuge capacity under warming scenarios. <i>Freshwater Biology</i> , <b>2018</b> , 63, 165-177	3.1	8
63	Mesocosm experiments identifying hotspots of groundwater upwelling in a water column by fibre optic distributed temperature sensing. <i>Hydrological Processes</i> , <b>2018</b> , 32, 185-199	3.3	3
62	Toward a conceptual framework of hyporheic exchange across spatial scales. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 6163-6185	5.5	24
61	Abundance, Distribution, and Drivers of Microplastic Contamination in Urban River Environments. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1597	3	129
60	Glacio-hydrological melt and run-off modelling: application of a limits of acceptability framework for model comparison and selection. <i>Cryosphere</i> , <b>2018</b> , 12, 2175-2210	5.5	10
59	Impact of Dynamically Changing Discharge on Hyporheic Exchange Processes Under Gaining and Losing Groundwater Conditions. <i>Water Resources Research</i> , <b>2018</b> , 54, 10,076	5.4	20
58	Thermal infrared imaging for the detection of relatively warm lacustrine groundwater discharge at the surface of freshwater bodies. <i>Journal of Hydrology</i> , <b>2018</b> , 562, 281-289	6	6
57	Integrated network models for predicting ecological thresholds: Microbial C-carbon interactions in coastal marine systems. <i>Environmental Modelling and Software</i> , <b>2017</b> , 91, 156-167	5.2	
56	Opening Opportunities for High-Resolution Isotope Analysis - Quantification of $\text{N}_2$ and $\text{D}_2$ in Diffusive Equilibrium in Thin-Film Passive Samplers. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4139-4146	7.8	2
55	Ecohydrological interfaces as hot spots of ecosystem processes. <i>Water Resources Research</i> , <b>2017</b> , 53, 6359-6376	5.4	100
54	Impacts of water level on metabolism and transient storage in vegetated lowland rivers: Insights from a mesocosm study. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 628-644	3.7	16
53	Helophyte impacts on the response of hyporheic invertebrate communities to inundation events in intermittent streams. <i>Ecohydrology</i> , <b>2017</b> , 10, e1857	2.5	2
52	Peatland bryophyte responses to increased light from black spruce removal. <i>Ecohydrology</i> , <b>2017</b> , 10, e1804	2.5	5
51	Multitracer Field Fluorometry: Accounting for Temperature and Turbidity Variability During Stream Tracer Tests. <i>Water Resources Research</i> , <b>2017</b> , 53, 9118-9126	5.4	10
50	High-frequency monitoring of catchment nutrient exports reveals highly variable storm event responses and dynamic source zone activation. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 2265-2281	3.7	62
49	Enhanced hyporheic exchange flow around woody debris does not increase nitrate reduction in a sandy streambed. <i>Biogeochemistry</i> , <b>2017</b> , 136, 353-372	3.8	15
48	Stream solute tracer timescales changing with discharge and reach length confound process interpretation. <i>Water Resources Research</i> , <b>2016</b> , 52, 3227-3245	5.4	24
47	Distributed Temperature Sensing as a downhole tool in hydrogeology. <i>Water Resources Research</i> , <b>2016</b> , 52, 9259-9273	5.4	68

46	Effects of bioirrigation of non-biting midges (Diptera: Chironomidae) on lake sediment respiration. <i>Scientific Reports</i> , <b>2016</b> , 6, 27329	4.9	32
45	Real-time monitoring of nutrients and dissolved organic matter in rivers: Capturing event dynamics, technological opportunities and future directions. <i>Science of the Total Environment</i> , <b>2016</b> , 569-570, 647-660	10.2	89
44	Bioturbation enhances the aerobic respiration of lake sediments in warming lakes. <i>Biology Letters</i> , <b>2016</b> , 12,	3.6	40
43	Using multi-tracer inference to move beyond single-catchment ecohydrology. <i>Earth-Science Reviews</i> , <b>2016</b> , 160, 19-42	10.2	105
42	Long-term variability of proglacial groundwater-fed hydrological systems in an area of glacier retreat, Skeiðarársandur, Iceland. <i>Earth Surface Processes and Landforms</i> , <b>2015</b> , 40, 981-994	3.7	17
41	Frontiers in real-time ecohydrology: A paradigm shift in understanding complex environmental systems. <i>Ecohydrology</i> , <b>2015</b> , 8, 529-537	2.5	37
40	Identifying spatial and temporal dynamics of proglacial groundwater-surface-water exchange using combined temperature-tracing methods. <i>Freshwater Science</i> , <b>2015</b> , 34, 99-110	2	12
39	Upscaling Nitrogen Removal Capacity from Local Hotspots to Low Stream Orders/Drainage Basins. <i>Ecosystems</i> , <b>2015</b> , 18, 1101-1120	3.9	85
38	The potential of large woody debris to alter biogeochemical processes and ecosystem services in lowland rivers. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2014</b> , 1, 263-275	5.7	25
37	Nested monitoring approaches to delineate groundwater trichloroethene discharge to a UK lowland stream at multiple spatial scales. <i>Journal of Contaminant Hydrology</i> , <b>2014</b> , 158, 38-54	3.9	24
36	Effect of low-permeability layers on spatial patterns of hyporheic exchange and groundwater upwelling. <i>Water Resources Research</i> , <b>2014</b> , 50, 5196-5215	5.4	60
35	Reply to comment by Francisco Suñez on "Capabilities and limitations of tracing spatial temperature patterns by fiber-optic distributed temperature sensing" <i>Water Resources Research</i> , <b>2014</b> , 50, 9780-9782	5.4	
34	Prospective modelling of 3D hyporheic exchange based on high-resolution topography and stream elevation. <i>Hydrological Processes</i> , <b>2014</b> , 28, 2579-2594	3.3	10
33	Reply to comment by J. S. Selker et al. on "Capabilities and limitations of tracing spatial temperature patterns by fiber-optic distributed temperature sensing" <i>Water Resources Research</i> , <b>2014</b> , 50, 5375-5377	5.4	1
32	Catchment similarity concepts for understanding dynamic biogeochemical behaviour of river basins. <i>Hydrological Processes</i> , <b>2014</b> , 28, 1554-1560	3.3	12
31	Understanding process dynamics at aquifer-surface water interfaces: An introduction to the special section on new modeling approaches and novel experimental technologies. <i>Water Resources Research</i> , <b>2014</b> , 50, 1847-1855	5.4	43
30	Streambed nitrogen cycling beyond the hyporheic zone: Flow controls on horizontal patterns and depth distribution of nitrate and dissolved oxygen in the upwelling groundwater of a lowland river. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 54-67	3.7	88
29	Impact of seasonal variability and monitoring mode on the adequacy of fiber-optic distributed temperature sensing at aquifer-river interfaces. <i>Water Resources Research</i> , <b>2013</b> , 49, 2408-2423	5.4	24



28	Capabilities and limitations of tracing spatial temperature patterns by fiber-optic distributed temperature sensing. <i>Water Resources Research</i> , <b>2013</b> , 49, 1741-1745	5.4	18
27	Upscaling lacustrine groundwater discharge rates by fiber-optic distributed temperature sensing. <i>Water Resources Research</i> , <b>2013</b> , 49, 7929-7944	5.4	37
26	Fibre-optic distributed temperature sensing for characterizing the impacts of vegetation coverage on thermal patterns in woodlands. <i>Ecohydrology</i> , <b>2012</b> , 6, n/a-n/a	2.5	9
25	Application of heat pulse injections for investigating shallow hyporheic flow in a lowland river. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	44
24	Investigating patterns and controls of groundwater up-welling in a lowland river by combining Fibre-optic Distributed Temperature Sensing with observations of vertical hydraulic gradients. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 1775-1792	5.5	73
23	The effect of groundwater forcing on hyporheic exchange: Reply to comment on Münz M, Krause S, Tecklenburg C, Binley A. Reducing monitoring gaps at the aquifer-river interface by modelling groundwater-surface water exchange flow patterns. <i>Hydrological Processes</i> . DOI: 10.1002/hyp.8000 <i>Hydrological Processes</i> , <b>2012</b> , 26, 1589-1592	3.3	7
22	Inter-disciplinary perspectives on processes in the hyporheic zone. <i>Ecohydrology</i> , <b>2011</b> , 4, 481-499	2.5	199
21	Interstitial pore-water temperature dynamics across a pool-riffle-pool sequence. <i>Ecohydrology</i> , <b>2011</b> , 4, 549-563	2.5	32
20	Ecohydrology on the edge: interactions across the interfaces of wetland, riparian and groundwater-based ecosystems. <i>Ecohydrology</i> , <b>2011</b> , 4, 477-480	2.5	14
19	Reducing monitoring gaps at the aquifer-river interface by modelling groundwater-surface water exchange flow patterns. <i>Hydrological Processes</i> , <b>2011</b> , 25, 3547-3562	3.3	31
18	Groundwater-surface water interactions: New methods and models to improve understanding of processes and dynamics. <i>Advances in Water Resources</i> , <b>2010</b> , 33, 1291-1295	4.7	172
17	Nitrate concentration changes at the groundwater-surface water interface of a small Cumbrian river. <i>Hydrological Processes</i> , <b>2009</b> , 23, 2195-2211	3.3	92
16	Spatio-temporal variations of hyporheic flow in a riffle-step-pool sequence. <i>Hydrological Processes</i> , <b>2009</b> , 23, 2138-2149	3.3	89
15	Hyporheic hydrology: interactions at the groundwater-surface water interface. <i>Hydrological Processes</i> , <b>2009</b> , 23, 2103-2107	3.3	54
14	Seasonal variability of groundwater-surface exchange and its implications for riparian groundwater nitrate retention at the Havel River. <i>International Journal of River Basin Management</i> , <b>2009</b> , 7, 329-343	1.7	1
13	Assessing the impact of changes in landuse and management practices on the diffuse pollution and retention of nitrate in a riparian floodplain. <i>Science of the Total Environment</i> , <b>2008</b> , 389, 149-64	10.2	60
12	Why can't we do better than Topmodel?. <i>Hydrological Processes</i> , <b>2008</b> , 22, 4175-4179	3.3	31
11	Groundwater-surface water interactions in a North German lowland floodplain [Implications for the river discharge dynamics and riparian water balance. <i>Journal of Hydrology</i> , <b>2007</b> , 347, 404-417	6	131



10	The impact of groundwater-surface water interactions on the water balance of a mesoscale lowland river catchment in northeastern Germany. <i>Hydrological Processes</i> , <b>2007</b> , 21, 169-184	3.3	59
9	Modelling the impacts of land-use and drainage density on the water balance of a lowland floodplain landscape in northeast Germany. <i>Ecological Modelling</i> , <b>2007</b> , 200, 475-492	3	55
8	Groundwater-Dependent Wetlands in the UK and Ireland: Controls, Functioning and Assessing the Likelihood of Damage from Human Activities. <i>Water Resources Management</i> , <b>2007</b> , 21, 2015-2025	3.7	26
7	Organizational principles of hyporheic exchange flow and biogeochemical cycling in river networks across scales. <i>Water Resources Research</i> ,	5.4	4
6	Hydrologic controls on the accumulation of different sized microplastics in the streambed sediments downstream of a wastewater treatment plant (Catalonia, Spain). <i>Environmental Research Letters</i> ,	6.2	1
5	BEYOND THE LIGHT EFFECT: HOW HYDROLOGIC AND GEOMORPHOLOGIC STREAM FEATURES CONTROL MICROBIAL DISTRIBUTION ACROSS POOL SEQUENCES IN A TEMPERATE HEADWATER STREAM. <i>Ecohydrology</i> ,e2380	2.5	0
4	An advanced approach for catchment delineation and water balance modelling within wetlands and floodplains. <i>Advances in Geosciences</i> ,5, 1-5		17
3	Scaling down hyporheic exchange flows: from catchments to reaches		5
2	Spatial and temporal variation in river corridor exchange across a 5th order mountain stream network		3
1	Investigating patterns and controls of groundwater up-welling in a lowland river by combining fibre-optic distributed temperature sensing with observations of vertical head gradients		10