

Stefan Krause

List of Publications by Citations

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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	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019 , 64, 1141-1158	3.5	259
134	Inter-disciplinary perspectives on processes in the hyporheic zone. <i>Ecohydrology</i> , 2011 , 4, 481-499	2.5	199
133	Groundwater-surface water interactions: New methods and models to improve understanding of processes and dynamics. <i>Advances in Water Resources</i> , 2010 , 33, 1291-1295	4.7	172
132	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> , 2007 , 347, 404-417	6	131
131	Abundance, Distribution, and Drivers of Microplastic Contamination in Urban River Environments. <i>Water (Switzerland)</i> , 2018 , 10, 1597	3	129
130	Human domination of the global water cycle absent from depictions and perceptions. <i>Nature Geoscience</i> , 2019 , 12, 533-540	18.3	124
129	Using multi-tracer inference to move beyond single-catchment ecohydrology. <i>Earth-Science Reviews</i> , 2016 , 160, 19-42	10.2	105
128	Ecohydrological interfaces as hot spots of ecosystem processes. <i>Water Resources Research</i> , 2017 , 53, 6359-6376	5.4	100
127	Nitrate concentration changes at the groundwater-surface water interface of a small Cumbrian river. <i>Hydrological Processes</i> , 2009 , 23, 2195-2211	3.3	92
126	Spatio-temporal variations of hyporheic flow in a riffle-step-pool sequence. <i>Hydrological Processes</i> , 2009 , 23, 2138-2149	3.3	89
125	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> , 2016 , 569-570, 647-660	10.2	89
124	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> , 2013 , 118, 54-67	3.7	88
123	Upscaling Nitrogen Removal Capacity from Local Hotspots to Low Stream Orders – Drainage Basins. <i>Ecosystems</i> , 2015 , 18, 1101-1120	3.9	85
122	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> , 2012 , 16, 1775-1792	5.5	73
121	Distributed Temperature Sensing as a downhole tool in hydrogeology. <i>Water Resources Research</i> , 2016 , 52, 9259-9273	5.4	68
120	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> , 2017 , 122, 2265-2281	3.7	62
119	Effect of low-permeability layers on spatial patterns of hyporheic exchange and groundwater upwelling. <i>Water Resources Research</i> , 2014 , 50, 5196-5215	5.4	60

118	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> , 2008 , 389, 149-64	10.2	60
117	The impact of groundwater-surface water interactions on the water balance of a mesoscale lowland river catchment in northeastern Germany. <i>Hydrological Processes</i> , 2007 , 21, 169-184	3.3	59
116	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> , 2007 , 200, 475-492	3	55
115	Hyporheic hydrology: interactions at the groundwater-surface water interface. <i>Hydrological Processes</i> , 2009 , 23, 2103-2107	3.3	54
114	Is the Hyporheic Zone Relevant beyond the Scientific Community?. <i>Water (Switzerland)</i> , 2019 , 11, 2230	3	51
113	Natural attenuation of chlorinated ethenes in hyporheic zones: A review of key biogeochemical processes and in-situ transformation potential. <i>Water Research</i> , 2018 , 128, 362-382	12.5	51
112	Application of heat pulse injections for investigating shallow hyporheic flow in a lowland river. <i>Water Resources Research</i> , 2012 , 48,	5.4	44
111	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> , 2014 , 50, 1847-1855	5.4	43
110	Bioturbation enhances the aerobic respiration of lake sediments in warming lakes. <i>Biology Letters</i> , 2016 , 12,	3.6	40
109	Riparian Corridors: A New Conceptual Framework for Assessing Nitrogen Buffering Across Biomes. <i>Frontiers in Environmental Science</i> , 2018 , 6,	4.8	39
108	Frontiers in real-time ecohydrology: a paradigm shift in understanding complex environmental systems. <i>Ecohydrology</i> , 2015 , 8, 529-537	2.5	37
107	Upscaling lacustrine groundwater discharge rates by fiber-optic distributed temperature sensing. <i>Water Resources Research</i> , 2013 , 49, 7929-7944	5.4	37
106	Effects of bioirrigation of non-biting midges (Diptera: Chironomidae) on lake sediment respiration. <i>Scientific Reports</i> , 2016 , 6, 27329	4.9	32
105	Interstitial pore-water temperature dynamics across a pool-riffle-pool sequence. <i>Ecohydrology</i> , 2011 , 4, 549-563	2.5	32
104	Reducing monitoring gaps at the aquifer-river interface by modelling groundwater-surface water exchange flow patterns. <i>Hydrological Processes</i> , 2011 , 25, 3547-3562	3.3	31
103	Why can't we do better than Topmodel?. <i>Hydrological Processes</i> , 2008 , 22, 4175-4179	3.3	31
102	Dynamic Hyporheic Zones: Exploring the Role of Peak Flow Events on Bedform-Induced Hyporheic Exchange. <i>Water Resources Research</i> , 2019 , 55, 218-235	5.4	30
101	Thermal sensitivity of CO and CH emissions varies with streambed sediment properties. <i>Nature Communications</i> , 2018 , 9, 2803	17.4	29

100	A water cycle for the Anthropocene. <i>Hydrological Processes</i> , 2019 , 33, 3046-3052	3.3	28
99	Low-Cost Environmental Sensor Networks: Recent Advances and Future Directions. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	27
98	Groundwater-Dependent Wetlands in the UK and Ireland: Controls, Functioning and Assessing the Likelihood of Damage from Human Activities. <i>Water Resources Management</i> , 2007 , 21, 2015-2025	3.7	26
97	Nano and microplastic interactions with freshwater biota - Current knowledge, challenges and future solutions. <i>Environment International</i> , 2021 , 152, 106504	12.9	26
96	The potential of large woody debris to alter biogeochemical processes and ecosystem services in lowland rivers. <i>Wiley Interdisciplinary Reviews: Water</i> , 2014 , 1, 263-275	5.7	25
95	Woody debris is related to reach-scale hotspots of lowland stream ecosystem respiration under baseflow conditions. <i>Ecohydrology</i> , 2018 , 11, e1952	2.5	24
94	Stream solute tracer timescales changing with discharge and reach length confound process interpretation. <i>Water Resources Research</i> , 2016 , 52, 3227-3245	5.4	24
93	Nested monitoring approaches to delineate groundwater trichloroethene discharge to a UK lowland stream at multiple spatial scales. <i>Journal of Contaminant Hydrology</i> , 2014 , 158, 38-54	3.9	24
92	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> , 2013 , 49, 2408-2423	5.4	24
91	Detection limits are central to improve reporting standards when using Nile red for microplastic quantification. <i>Chemosphere</i> , 2021 , 263, 127953	8.4	24
90	Toward a conceptual framework of hyporheic exchange across spatial scales. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 6163-6185	5.5	24
89	Streambed Organic Matter Controls on Carbon Dioxide and Methane Emissions from Streams. <i>Environmental Science & Technology</i> , 2019 , 53, 2364-2374	10.3	23
88	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> , 2020 , 736, 139679	10.2	23
87	Significance of Hyporheic Exchange for Predicting Microplastic Fate in Rivers. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 727-732	11	23
86	Gathering at the top? Environmental controls of microplastic uptake and biomagnification in freshwater food webs. <i>Environmental Pollution</i> , 2021 , 268, 115750	9.3	22
85	A multiscale statistical method to identify potential areas of hyporheic exchange for river restoration planning. <i>Environmental Modelling and Software</i> , 2019 , 111, 311-323	5.2	20
84	Bacterial Diversity Controls Transformation of Wastewater-Derived Organic Contaminants in River-Simulating Flumes. <i>Environmental Science & Technology</i> , 2020 , 54, 5467-5479	10.3	20
83	Impact of Dynamically Changing Discharge on Hyporheic Exchange Processes Under Gaining and Losing Groundwater Conditions. <i>Water Resources Research</i> , 2018 , 54, 10,076	5.4	20

82	Capabilities and limitations of tracing spatial temperature patterns by fiber-optic distributed temperature sensing. <i>Water Resources Research</i> , 2013 , 49, 1741-1745	5.4	18
81	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> , 2019 , 21, 2093-2108	4.3	18
80	Long-term variability of proglacial groundwater-fed hydrological systems in an area of glacier retreat, Skeiðarársandur, Iceland. <i>Earth Surface Processes and Landforms</i> , 2015 , 40, 981-994	3.7	17
79	An advanced approach for catchment delineation and water balance modelling within wetlands and floodplains. <i>Advances in Geosciences</i> , 5 , 1-5		17
78	Groundwater flooding: Ecosystem structure following an extreme recharge event. <i>Science of the Total Environment</i> , 2019 , 652, 1252-1260	10.2	17
77	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> , 2017 , 122, 628-644	3.7	16
76	Exploring Tracer Information and Model Framework Trade-Offs to Improve Estimation of Stream Transient Storage Processes. <i>Water Resources Research</i> , 2019 , 55, 3481-3501	5.4	16
75	Enhanced hyporheic exchange flow around woody debris does not increase nitrate reduction in a sandy streambed. <i>Biogeochemistry</i> , 2017 , 136, 353-372	3.8	15
74	Ecohydrology on the edge: interactions across the interfaces of wetland, riparian and groundwater-based ecosystems. <i>Ecohydrology</i> , 2011 , 4, 477-480	2.5	14
73	Seasonal variability of sediment controls of carbon cycling in an agricultural stream. <i>Science of the Total Environment</i> , 2019 , 688, 732-741	10.2	12
72	Identifying spatial and temporal dynamics of proglacial groundwater-surface-water exchange using combined temperature-tracing methods. <i>Freshwater Science</i> , 2015 , 34, 99-110	2	12
71	Catchment similarity concepts for understanding dynamic biogeochemical behaviour of river basins. <i>Hydrological Processes</i> , 2014 , 28, 1554-1560	3.3	12
70	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> , 2021 , 268, 115765	9.3	12
69	Toward a Generalizable Framework of Disturbance Ecology Through Crowdsourced Science. <i>Frontiers in Ecology and Evolution</i> , 2021 , 9,	3.7	11
68	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> , 2019 , 55, 1675-1697	5.4	10
67	Citizen science reveals microplastic hotspots within tidal estuaries and the remote Scilly Islands, United Kingdom. <i>Marine Pollution Bulletin</i> , 2020 , 161, 111776	6.7	10
66	Seasonal variability of sediment controls of nitrogen cycling in an agricultural stream. <i>Biogeochemistry</i> , 2020 , 148, 31-48	3.8	10
65	Prospective modelling of 3D hyporheic exchange based on high-resolution topography and stream elevation. <i>Hydrological Processes</i> , 2014 , 28, 2579-2594	3.3	10

64	Multitracer Field Fluorometry: Accounting for Temperature and Turbidity Variability During Stream Tracer Tests. <i>Water Resources Research</i> , 2017 , 53, 9118-9126	5.4	10
63	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
62	Glacio-hydrological melt and run-off modelling: application of a limits of acceptability framework for model comparison and selection. <i>Cryosphere</i> , 2018 , 12, 2175-2210	5.5	10
61	Future evolution and uncertainty of river flow regime change in a deglaciating river basin. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 1833-1865	5.5	9
60	Effects of Successive Peak Flow Events on Hyporheic Exchange and Residence Times. <i>Water Resources Research</i> , 2020 , 56, e2020WR027113	5.4	9
59	Fibre-optic distributed temperature sensing for characterizing the impacts of vegetation coverage on thermal patterns in woodlands. <i>Ecohydrology</i> , 2012 , 6, n/a-n/a	2.5	9
58	Moving beyond the Technology: A Socio-technical Roadmap for Low-Cost Water Sensor Network Applications. <i>Environmental Science & Technology</i> , 2020 , 54, 9145-9158	10.3	8
57	Impact of Flow Alteration and Temperature Variability on Hyporheic Exchange. <i>Water Resources Research</i> , 2020 , 56, e2019WR026225	5.4	8
56	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> , 2019 , 11, 1567-1581	10.5	8
55	Characteristics of free air carbon dioxide enrichment of a northern temperate mature forest. <i>Global Change Biology</i> , 2020 , 26, 1023-1037	11.4	8
54	Mesocosm experiments reveal the direction of groundwater-surface water exchange alters the hyporheic refuge capacity under warming scenarios. <i>Freshwater Biology</i> , 2018 , 63, 165-177	3.1	8
53	Collaboration and infrastructure is needed to develop an African perspective on micro(nano)plastic pollution. <i>Environmental Research Letters</i> , 2021 , 16, 021002	6.2	8
52	Revealing chlorinated ethene transformation hotspots in a nitrate-impacted hyporheic zone. <i>Water Research</i> , 2019 , 161, 222-231	12.5	7
51	Low flow controls on stream thermal dynamics. <i>Limnologia</i> , 2018 , 68, 157-167	2	7
50	Water sensor network applications: Time to move beyond the technical?. <i>Hydrological Processes</i> , 2018 , 32, 2612-2615	3.3	7
49	Revision of biological indices for aquatic systems: A ridge-regression solution. <i>Ecological Indicators</i> , 2019 , 106, 105478	5.8	7
48	The effect of groundwater forcing on hyporheic exchange: Reply to comment on Munz M, Krause S, Tecklenburg C, Binley A. Reducing monitoring gaps at the aquifer-river interface by modelling groundwater-surfacewater exchange flow patterns. <i>Hydrological Processes</i> . DOI: 10.1002/hyp.8080	3.3	7
47	Spatial and temporal variation in river corridor exchange across a 5th-order mountain stream network. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 5199-5225	5.5	7

46	Solute Transport and Transformation in an Intermittent, Headwater Mountain Stream with Diurnal Discharge Fluctuations. <i>Water (Switzerland)</i> , 2019 , 11, 2208	3	7
45	Developing composite indicators for ecological water quality assessment based on network interactions and expert judgment. <i>Environmental Modelling and Software</i> , 2019 , 115, 51-62	5.2	7
44	Simple yet effective modifications to the operation of the Sediment Microplastic Isolation unit to avoid polyvinyl chloride (PVC) contamination. <i>MethodsX</i> , 2019 , 6, 2656-2661	1.9	6
43	A distributed heat pulse sensor network for thermo-hydraulic monitoring of the soil subsurface. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2020 , 53, 352-365	1.4	6
42	Thermal infrared imaging for the detection of relatively warm lacustrine groundwater discharge at the surface of freshwater bodies. <i>Journal of Hydrology</i> , 2018 , 562, 281-289	6	6
41	Disturbance Impacts on Thermal Hot Spots and Hot Moments at the Peatland-Atmosphere Interface. <i>Geophysical Research Letters</i> , 2018 , 45, 185-193	4.9	5
40	Peatland bryophyte responses to increased light from black spruce removal. <i>Ecohydrology</i> , 2017 , 10, e1804	2.5	5
39	Scaling down hyporheic exchange flows: from catchments to reaches		5
38	Identification of floodplain and riverbed sediment heterogeneity in a meandering UK lowland stream by ground penetrating radar. <i>Journal of Applied Geophysics</i> , 2019 , 171, 103863	1.7	4
37	Organizational principles of hyporheic exchange flow and biogeochemical cycling in river networks across scales. <i>Water Resources Research</i> ,	5.4	4
36	Proglacial groundwater storage dynamics under climate change and glacier retreat. <i>Hydrological Processes</i> , 2020 , 34, 5456-5473	3.3	4
35	Spatial and temporal variation in river corridor exchange across a 5th order mountain stream network		3
34	Instream wood increases riverbed temperature variability in a lowland sandy stream. <i>River Research and Applications</i> , 2020 , 36, 1529-1542	2.3	3
33	The riverine bioreactor: An integrative perspective on biological decomposition of organic matter across riverine habitats. <i>Science of the Total Environment</i> , 2021 , 772, 145494	10.2	3
32	An Untargeted Thermogravimetric Analysis-Fourier Transform Infrared-Gas Chromatography-Mass Spectrometry Approach for Plastic Polymer Identification. <i>Environmental Science & Technology</i> , 2021 , 55, 8721-8729	10.3	3
31	Mesocosm experiments identifying hotspots of groundwater upwelling in a water column by fibre optic distributed temperature sensing. <i>Hydrological Processes</i> , 2018 , 32, 185-199	3.3	3
30	Opening Opportunities for High-Resolution Isotope Analysis - Quantification of N_2 and D_2 in Diffusive Equilibrium in Thin-Film Passive Samplers. <i>Analytical Chemistry</i> , 2017 , 89, 4139-4146	7.8	2
29	Helophyte impacts on the response of hyporheic invertebrate communities to inundation events in intermittent streams. <i>Ecohydrology</i> , 2017 , 10, e1857	2.5	2

28	Microplastic accumulation in riverbed sediment via hyporheic exchange from headwaters to mainstems.. <i>Science Advances</i> , 2022 , 8, eabi9305	14.3	2
27	Building socio-hydrological resilience [Improving capacity for building a socio hydrological system resilience] <i>Safety in Extreme Environments</i> , 2020 , 2, 205-218	0.8	2
26	Social media sows consensus in disturbance ecology. <i>Nature</i> , 2020 , 577, 170	50.4	2
25	BIFoR FACE: WaterBoilVegetationAtmosphere data from a temperate deciduous forest catchment, including under elevated CO2. <i>Hydrological Processes</i> , 2021 , 35, e14096	3.3	2
24	High-Frequency Monitoring Reveals Multiple Frequencies of Nitrogen and Carbon Mass Balance Dynamics in a Headwater Stream. <i>Frontiers in Water</i> , 2021 , 3,	2.6	2
23	Rivervis: A tool for visualising river ecosystems. <i>Computers and Geosciences</i> , 2019 , 123, 59-64	4.5	2
22	Restoration impacts on rates of denitrification and greenhouse gas fluxes from tropical coastal wetlands. <i>Science of the Total Environment</i> , 2022 , 803, 149577	10.2	2
21	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> , 2014 , 50, 5375-5377	5.4	1
20	Seasonal variability of groundwaterSurface exchange and its implications for riparian groundwater nitrate retention at the Havel River. <i>International Journal of River Basin Management</i> , 2009 , 7, 329-343	1.7	1
19	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
18	Adding our leaves: A community-wide perspective on research directions in ecohydrology. <i>Hydrological Processes</i> , 2020 , 34, 1665-1673	3.3	1
17	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> , 2020 , 709, 136075	10.2	1
16	Macrophyte Controls on Urban Stream Microbial Metabolic Activity. <i>Environmental Science & Technology</i> , 2021 , 55, 4585-4596	10.3	1
15	How daily groundwater table drawdown affects the diel rhythm of hyporheic exchange. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 1905-1921	5.5	1
14	Increasing nutrient inputs risk a surge of nitrous oxide emissions from global mangrove ecosystems. <i>One Earth</i> , 2021 , 4, 742-748	8.1	1
13	Transformation of organic micropollutants along hyporheic flow in bedforms of river-simulating flumes. <i>Scientific Reports</i> , 2021 , 11, 13034	4.9	1
12	Green roof vegetation management alters potential for water quality and temperature mitigation. <i>Ecohydrology</i> , 2021 , 14, e2321	2.5	1
11	Hydrological, physicochemical and metabolic signatures in groundwater and snowmelt streams in the Japanese Alps. <i>Journal of Hydrology</i> , 2021 , 600, 126560	6	1

10	Modeling Contaminant Microbes in Rivers During Both Baseflow and Stormflow. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
9	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> , 2022 , 211, 118054	12.5	0
8	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
7	The influence of system heterogeneity on peat-surface temperature dynamics. <i>Environmental Research Letters</i> , 2021 , 16, 024002	6.2	0
6	Improve performance and robustness of knowledge-based FUZZY LOGIC habitat models. <i>Environmental Modelling and Software</i> , 2021 , 144, 105138	5.2	0
5	Illuminating the invisible water crisis to address global water pollution challenges. <i>Hydrological Processes</i> , 2022 , 36,	3.3	0
4	Integrated network models for predicting ecological thresholds: Microbial carbon interactions in coastal marine systems. <i>Environmental Modelling and Software</i> , 2017 , 91, 156-167	5.2	
3	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> , 2014 , 50, 9780-9782	5.4	
2	From water2me to water4all: Democratizing the discussion of global water futures through crowdsourcing of individual water values. <i>Hydrological Processes</i> , 2021 , 35, e14134	3.3	
1	Reply to 'Pseudoreplication and greenhouse-gas emissions from rivers'. <i>Nature Communications</i> , 2019 , 10, 5369	17.4	