

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.

88

papers

4,721

citations

38

h-index

67

g-index

88

ext. papers

5,533

ext. citations

5.7

avg, IF

5.82

L-index

#	Paper	IF	Citations
88	A review of allochthonous organic matter dynamics and metabolism in streams. <i>Journal of the North American Benthological Society</i> , 2010 , 29, 118-146		499
87	Synthetic chemicals as agents of global change. <i>Frontiers in Ecology and the Environment</i> , 2017 , 15, 84-90	5.5	294
86	Wastewater treatment effluent reduces the abundance and diversity of benthic bacterial communities in urban and suburban rivers. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 1897-905	4.8	209
85	Toxins in transgenic crop byproducts may affect headwater stream ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 16204-8	11.5	190
84	Are rivers just big streams? A pulse method to quantify nitrogen demand in a large river. <i>Ecology</i> , 2008 , 89, 2935-45	4.6	152
83	Pharmaceutical Compounds and Ecosystem Function: An Emerging Research Challenge for Aquatic Ecologists. <i>Ecosystems</i> , 2012 , 15, 867-880	3.9	139
82	Pharmaceuticals suppress algal growth and microbial respiration and alter bacterial communities in stream biofilms 2013 , 23, 583-93		129
81	Triclosan exposure increases triclosan resistance and influences taxonomic composition of benthic bacterial communities. <i>Environmental Science & Technology</i> , 2013 , 47, 8923-30	10.3	121
80	Invertebrate food webs along a stream resource gradient. <i>Freshwater Biology</i> , 2002 , 47, 129-141	3.1	121
79	A diverse suite of pharmaceuticals contaminates stream and riparian food webs. <i>Nature Communications</i> , 2018 , 9, 4491	17.4	118
78	Ecosystem ecology meets adaptive management: food web response to a controlled flood on the Colorado River, Glen Canyon 2011 , 21, 2016-33		117
77	Food-web dynamics in a large river discontinuum. <i>Ecological Monographs</i> , 2013 , 83, 311-337	9	110
76	Metabolism, Gas Exchange, and Carbon Spiraling in Rivers. <i>Ecosystems</i> , 2016 , 19, 73-86	3.9	105
75	Defining Extreme Events: A Cross-Disciplinary Review. <i>Earth's Future</i> , 2018 , 6, 441-455	7.9	94
74	Dynamic heterogeneity: a framework to promote ecological integration and hypothesis generation in urban systems. <i>Urban Ecosystems</i> , 2017 , 20, 1-14	2.8	91
73	Turbidity, light, temperature, and hydropeaking control primary productivity in the Colorado River, Grand Canyon. <i>Limnology and Oceanography</i> , 2015 , 60, 512-526	4.8	88
72	A review of ecological effects and environmental fate of illicit drugs in aquatic ecosystems. <i>Journal of Hazardous Materials</i> , 2015 , 282, 18-25	12.8	88

71	The hippopotamus conveyor belt: vectors of carbon and nutrients from terrestrial grasslands to aquatic systems in sub-Saharan Africa. <i>Freshwater Biology</i> , 2015 , 60, 512-525	3.1	85
70	Occurrence of maize detritus and a transgenic insecticidal protein (Cry1Ab) within the stream network of an agricultural landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17645-50	11.5	82
69	Annual mass drownings of the Serengeti wildebeest migration influence nutrient cycling and storage in the Mara River. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7647-7652	11.5	77
68	Controls on spatial and temporal variation of nutrient uptake in three Michigan headwater streams. <i>Limnology and Oceanography</i> , 2007 , 52, 1964-1977	4.8	75
67	Solute-specific scaling of inorganic nitrogen and phosphorus uptake in streams. <i>Biogeosciences</i> , 2013 , 10, 7323-7331	4.6	64
66	Agricultural land use alters the seasonality and magnitude of stream metabolism. <i>Limnology and Oceanography</i> , 2013 , 58, 1513-1529	4.8	62
65	Rapid decomposition of maize detritus in agricultural headwater streams 2009 , 19, 133-42		62
64	Responses of stream macroinvertebrates to Bt maize leaf detritus 2010 , 20, 1949-60		60
63	Quantity, controls and functions of large woody debris in Midwestern USA streams. <i>River Research and Applications</i> , 2007 , 23, 21-33	2.3	55
62	Modeling priming effects on microbial consumption of dissolved organic carbon in rivers. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 982-995	3.7	51
61	Responses in organic matter accumulation and processing to an experimental wood addition in three headwater streams. <i>Freshwater Biology</i> , 2008 , 53, 1642-1657	3.1	50
60	The Next Decade of Big Data in Ecosystem Science. <i>Ecosystems</i> , 2017 , 20, 274-283	3.9	49
59	Temporal variation in substratum-specific rates of N uptake and metabolism and their contribution at the stream-reach scale. <i>Journal of the North American Benthological Society</i> , 2009 , 28, 305-318		49
58	Occurrence and Potential Biological Effects of Amphetamine on Stream Communities. <i>Environmental Science & Technology</i> , 2016 , 50, 9727-35	10.3	47
57	Moving Towards a New Urban Systems Science. <i>Ecosystems</i> , 2017 , 20, 38-43	3.9	46
56	Temporal variation in organic carbon spiraling in Midwestern agricultural streams. <i>Biogeochemistry</i> , 2012 , 108, 149-169	3.8	45
55	Response of secondary production by macroinvertebrates to large wood addition in three Michigan streams. <i>Freshwater Biology</i> , 2009 , 54, 1741-1758	3.1	45
54	Partitioning assimilatory nitrogen uptake in streams: an analysis of stable isotope tracer additions across continents. <i>Ecological Monographs</i> , 2018 , 88, 120-138	9	43

53	Antidepressants in stream ecosystems: influence of selective serotonin reuptake inhibitors (SSRIs) on algal production and insect emergence. <i>Freshwater Science</i> , 2016 , 35, 845-855	2	41
52	Decadal-Scale Change in a Large-River Ecosystem. <i>BioScience</i> , 2014 , 64, 496-510	5.7	40
51	Antibiotic stewardship should consider environmental fate of antibiotics. <i>Environmental Science & Technology</i> , 2015 , 49, 5257-8	10.3	39
50	You are not always what we think you eat: selective assimilation across multiple whole-stream isotopic tracer studies. <i>Ecology</i> , 2014 , 95, 2757-2767	4.6	35
49	The varying role of water column nutrient uptake along river continua in contrasting landscapes. <i>Biogeochemistry</i> , 2015 , 125, 115-131	3.8	34
48	Macroinvertebrate diets reflect tributary inputs and turbidity-driven changes in food availability in the Colorado River downstream of Glen Canyon Dam. <i>Freshwater Science</i> , 2013 , 32, 397-410	2	34
47	Seasonal variation in nutrient limitation of microbial biofilms colonizing organic and inorganic substrata in streams. <i>Hydrobiologia</i> , 2010 , 649, 331-345	2.4	33
46	Urban stream microbial communities show resistance to pharmaceutical exposure. <i>Ecosphere</i> , 2018 , 9, e02041	3.1	32
45	Acid rain mitigation experiment shifts a forested watershed from a net sink to a net source of nitrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7580-3	11.5	32
44	Recovery and resilience of urban stream metabolism following Superstorm Sandy and other floods. <i>Ecosphere</i> , 2017 , 8, e01776	3.1	31
43	The antihistamine cimetidine alters invertebrate growth and population dynamics in artificial streams. <i>Freshwater Science</i> , 2012 , 31, 379-388	2	31
42	Anticipating Stream Ecosystem Responses to Climate Change: Toward Predictions that Incorporate Effects Via Land-Water Linkages. <i>Ecosystems</i> , 2013 , 16, 909-922	3.9	29
41	Retesting a prediction of the River Continuum Concept: autochthonous versus allochthonous resources in the diets of invertebrates. <i>Freshwater Science</i> , 2016 , 35, 534-543	2	29
40	Dissolved organic carbon in streams from artificially drained and intensively farmed watersheds in Indiana, USA. <i>Biogeochemistry</i> , 2009 , 95, 295-307	3.8	28
39	Ecological responses to trout habitat rehabilitation in a northern Michigan stream. <i>Environmental Management</i> , 2006 , 38, 99-107	3.1	27
38	Extreme floods increase CO ₂ outgassing from a large Amazonian river. <i>Limnology and Oceanography</i> , 2017 , 62, 989-999	4.8	25
37	Invasion and production of New Zealand mud snails in the Colorado River, Glen Canyon. <i>Biological Invasions</i> , 2010 , 12, 3033-3043	2.7	25
36	The influence of a semi-arid sub-catchment on suspended sediments in the Mara River, Kenya. <i>PLoS ONE</i> , 2018 , 13, e0192828	3.7	25

35	Water Flow and Biofilm Cover Influence Environmental DNA Detection in Recirculating Streams. <i>Environmental Science & Technology</i> , 2018 , 52, 8530-8537	10.3	24
34	Macroinvertebrate secondary production in 3 forested streams of the upper Midwest, USA. <i>Journal of the North American Benthological Society</i> , 2007 , 26, 472-490		24
33	Organic matter and nutrient inputs from large wildlife influence ecosystem function in the Mara River, Africa. <i>Ecology</i> , 2018 , 99, 2558-2574	4.6	24
32	Comparing streambed light availability and canopy cover in streams with old-growth versus early-mature riparian forests in western Oregon. <i>Aquatic Sciences</i> , 2013 , 75, 547-558	2.5	23
31	A framework for establishing restoration goals for contaminated ecosystems. <i>Integrated Environmental Assessment and Management</i> , 2016 , 12, 264-72	2.5	21
30	Coarse particulate organic matter transport in low-gradient streams of the Upper Peninsula of Michigan. <i>Journal of the North American Benthological Society</i> , 2008 , 27, 760-771		21
29	EFFECTS OF BENTHIC HABITAT RESTORATION ON NUTRIENT UPTAKE AND ECOSYSTEM METABOLISM IN THREE HEADWATER STREAMS. <i>River Research and Applications</i> , 2012 , 28, 1451-1461	2.3	20
28	Ecology. Harvesting data from genetically engineered crops. <i>Science</i> , 2008 , 320, 452-3	33.3	20
27	Mercury and selenium accumulation in the Colorado River food web, Grand Canyon, USA. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 2385-94	3.8	19
26	The role of federal agencies in the application of scientific knowledge. <i>Frontiers in Ecology and the Environment</i> , 2010 , 8, 322-328	5.5	19
25	Hippos (): The animal silicon pump. <i>Science Advances</i> , 2019 , 5, eaav0395	14.3	17
24	Scaling Dissolved Nutrient Removal in River Networks: A Comparative Modeling Investigation. <i>Water Resources Research</i> , 2017 , 53, 9623-9641	5.4	17
23	A novel method to assess effects of chemical stressors on natural biofilm structure and function. <i>Freshwater Biology</i> , 2016 , 61, 2129-2140	3.1	17
22	Changes in long-term water quality of Baltimore streams are associated with both gray and green infrastructure. <i>Limnology and Oceanography</i> , 2019 , 64, S60	4.8	13
21	Functional redundancy of stream macroconsumers despite differences in catchment land use. <i>Freshwater Biology</i> , 2008 , 53, 2587-2599	3.1	13
20	Long-term research reveals multiple relationships between the abundance and impacts of a non-native species. <i>Limnology and Oceanography</i> , 2019 , 64, S105	4.8	12
19	Forest Age Influences In-stream Ecosystem Processes in Northeastern US. <i>Ecosystems</i> , 2017 , 20, 1058-1071	3.1	12
18	A 2000-year sediment record reveals rapidly changing sedimentation and land use since the 1960s in the Upper Mara-Serengeti Ecosystem. <i>Science of the Total Environment</i> , 2019 , 664, 148-160	10.2	11

17	High Diet Overlap between Native Small-Bodied Fishes and Nonnative Fathead Minnow in the Colorado River, Grand Canyon, Arizona. <i>Transactions of the American Fisheries Society</i> , 2014 , 143, 1072-1083	1.7	11
16	A practical method for measuring integrated solar radiation reaching streambeds using photodegrading dyes. <i>Freshwater Science</i> , 2012 , 31, 1070-1077	2	11
15	Drivers of nitrogen transfer in stream food webs across continents. <i>Ecology</i> , 2017 , 98, 3044-3055	4.6	10
14	Decline in the quality of suspended fine particulate matter as a food resource for chironomids downstream of an urban area. <i>Freshwater Biology</i> , 2004 , 49, 515-525	3.1	10
13	Give and Take: A Watershed Acid Rain Mitigation Experiment Increases Baseflow Nitrogen Retention but Increases Stormflow Nitrogen Export. <i>Environmental Science & Technology</i> , 2018 , 52, 13155-13165	10.3	10
12	Occurrence, leaching, and degradation of Cry1Ab protein from transgenic maize detritus in agricultural streams. <i>Science of the Total Environment</i> , 2017 , 592, 97-105	10.2	9
11	Seeing the light: urban stream restoration affects stream metabolism and nitrate uptake via changes in canopy cover. <i>Ecological Applications</i> , 2019 , 29, e01941	4.9	9
10	Food web controls on mercury fluxes and fate in the Colorado River, Grand Canyon. <i>Science Advances</i> , 2020 , 6, eaaz4880	14.3	9
9	Methods for quantifying aquatic macroinvertebrate diets. <i>Freshwater Science</i> , 2016 , 35, 229-236	2	9
8	Influences of the antidepressant fluoxetine on stream ecosystem function and aquatic insect emergence at environmentally realistic concentrations. <i>Journal of Freshwater Ecology</i> , 2019 , 34, 513-531	1.4	8
7	Quality of suspended fine particulate matter in the Little Tennessee River. <i>Hydrobiologia</i> , 2004 , 519, 29-37	2.4	4
6	High resolution measurement of light in terrestrial ecosystems using photodegrading dyes. <i>PLoS ONE</i> , 2013 , 8, e75715	3.7	3
5	Animal legacies lost and found in river ecosystems. <i>Environmental Research Letters</i> , 2021 , 16, 115011	6.2	3
4	Temporal resource partitioning of wildebeest carcasses by scavengers after riverine mass mortality events. <i>Ecosphere</i> , 2021 , 12, e03326	3.1	3
3	Reply to Beachy et al. and Parrott: Study indicates Bt corn may affect caddisflies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, E11-E11	11.5	2
2	The meta-gut: Hippo inputs lead to community coalescence of animal and environmental microbiomes		1
1	Dynamics of large wood added to Midwestern USA streams. <i>River Research and Applications</i> , 2021 , 37, 843-857	2.3	