

Timothy J Hoellein

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

4,621
citations

159358

30
h-index

182168

51
g-index

53
all docs

53
docs citations

53
times ranked

4600
citing authors

#	ARTICLE	IF	CITATIONS
1	Microplastic is an Abundant and Distinct Microbial Habitat in an Urban River. <i>Environmental Science & Technology</i> , 2014, 48, 11863-11871.	4.6	1,045
2	Microplastic in surface waters of urban rivers: concentration, sources, and associated bacterial assemblages. <i>Ecosphere</i> , 2016, 7, e01556.	1.0	379
3	Microplastic Contamination in Karst Groundwater Systems. <i>Ground Water</i> , 2019, 57, 189-196.	0.7	282
4	The global odyssey of plastic pollution. <i>Science</i> , 2020, 368, 1184-1185.	6.0	234
5	Microplastic in riverine fish is connected to species traits. <i>Scientific Reports</i> , 2018, 8, 11639.	1.6	231
6	Anthropogenic Litter in Urban Freshwater Ecosystems: Distribution and Microbial Interactions. <i>PLoS ONE</i> , 2014, 9, e98485.	1.1	216
7	Bivalve Impacts in Freshwater and Marine Ecosystems. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2018, 49, 183-208.	3.8	172
8	A watershed-scale, citizen science approach to quantifying microplastic concentration in a mixed land-use river. <i>Water Research</i> , 2018, 147, 382-392.	5.3	171
9	Revisiting Odum (1956): A synthesis of aquatic ecosystem metabolism. <i>Limnology and Oceanography</i> , 2013, 58, 2089-2100.	1.6	156
10	Microplastic deposition velocity in streams follows patterns for naturally occurring allochthonous particles. <i>Scientific Reports</i> , 2019, 9, 3740.	1.6	140
11	Longitudinal patterns of microplastic concentration and bacterial assemblages in surface and benthic habitats of an urban river. <i>Freshwater Science</i> , 2017, 36, 491-507.	0.9	130
12	Controls on spatial and temporal variation of nutrient uptake in three Michigan headwater streams. <i>Limnology and Oceanography</i> , 2007, 52, 1964-1977.	1.6	89
13	Microplastic-Associated Biofilms: A Comparison of Freshwater and Marine Environments. <i>Handbook of Environmental Chemistry</i> , 2018, , 181-201.	0.2	85
14	Gathering at the top? Environmental controls of microplastic uptake and biomagnification in freshwater food webs. <i>Environmental Pollution</i> , 2021, 268, 115750.	3.7	75
15	Wastewater treatment alters microbial colonization of microplastics. <i>PLoS ONE</i> , 2021, 16, e0244443.	1.1	72
16	Does mixing litter of different qualities alter stream microbial diversity and functioning on individual litter species?. <i>Oikos</i> , 2009, 118, 457-463.	1.2	70
17	Sediment, water column, and open-channel denitrification in rivers measured using membrane-inlet mass spectrometry. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1258-1274.	1.3	69
18	Microplastic accumulation in riverbed sediment via hyporheic exchange from headwaters to mainstems. <i>Science Advances</i> , 2022, 8, eabi9305.	4.7	68

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19	Eastern oyster (<i>Crassostrea virginica</i>) filtration, biodeposition, and sediment nitrogen cycling at two oyster reefs with contrasting water quality in Great Bay Estuary (New Hampshire, USA). <i>Biogeochemistry</i> , 2015, 122, 113-129.	1.7	64
20	Responses in organic matter accumulation and processing to an experimental wood addition in three headwater streams. <i>Freshwater Biology</i> , 2008, 53, 1642-1657.	1.2	61
21	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.	3.0	57
22	The "plastic cycle": a watershed-scale model of plastic pools and fluxes. <i>Frontiers in Ecology and the Environment</i> , 2021, 19, 176-183.	1.9	56
23	Anthropogenic litter is abundant, diverse, and mobile in urban rivers: Insights from cross-ecosystem analyses using ecosystem and community ecology tools. <i>Limnology and Oceanography</i> , 2016, 61, 1718-1734.	1.6	54
24	Response of secondary production by macroinvertebrates to large wood addition in three Michigan streams. <i>Freshwater Biology</i> , 2009, 54, 1741-1758.	1.2	52
25	Effect of eastern oysters (<i>Crassostrea virginica</i>) on sediment carbon and nitrogen dynamics in an urban estuary. <i>Ecological Applications</i> , 2014, 24, 271-286.	1.8	47
26	Abundance and environmental drivers of anthropogenic litter on 5 Lake Michigan beaches: A study facilitated by citizen science data collection. <i>Journal of Great Lakes Research</i> , 2015, 41, 78-86.	0.8	43
27	Contributions of freshwater mussels (Unionidae) to nutrient cycling in an urban river: filtration, recycling, storage, and removal. <i>Biogeochemistry</i> , 2017, 135, 307-324.	1.7	42
28	Citizen science datasets reveal drivers of spatial and temporal variation for anthropogenic litter on Great Lakes beaches. <i>Science of the Total Environment</i> , 2017, 577, 105-112.	3.9	38
29	Seasonal variation in nutrient limitation of microbial biofilms colonizing organic and inorganic substrata in streams. <i>Hydrobiologia</i> , 2010, 649, 331-345.	1.0	35
30	Effect of Eastern Oysters (<i>Crassostrea virginica</i>) and Seasonality on Nitrite Reductase Gene Abundance (<i>nirS</i> , <i>nirK</i> , <i>nrfA</i>) in an Urban Estuary. <i>Estuaries and Coasts</i> , 2016, 39, 218-232.	1.0	34
31	The invasive Asian clam (<i>Corbicula fluminea</i>) increases sediment denitrification and ammonium flux in 2 streams in the midwestern USA. <i>Freshwater Science</i> , 2015, 34, 472-484.	0.9	32
32	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.	3.0	30
33	Spatial variability in nutrient concentration and biofilm nutrient limitation in an urban watershed. <i>Biogeochemistry</i> , 2011, 106, 265-280.	1.7	27
34	A fish tale: a century of museum specimens reveal increasing microplastic concentrations in freshwater fish. <i>Ecological Applications</i> , 2021, 31, e02320.	1.8	26
35	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.	0.7	24
36	Eelgrass meadows, <i>Zostera marina</i> (L.), facilitate the ecosystem service of nitrogen removal during simulated nutrient pulses in Shinnecock Bay, New York, USA. <i>Marine Pollution Bulletin</i> , 2017, 124, 376-387.	2.3	21

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37	Marsh Plants Enhance Coastal Marsh Resilience by Changing Sediment Oxygen and Sulfide Concentrations in an Urban, Eutrophic Estuary. <i>Estuaries and Coasts</i> , 2020, 43, 801-813.	1.0	19
38	Microplastics in Invasive Freshwater Mussels (<i>Dreissena</i> sp.): Spatiotemporal Variation and Occurrence With Chemical Contaminants. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	19
39	Habitat characteristics, temporal variability, and macroinvertebrate communities associated with a mat-forming nuisance diatom (<i>Didymosphenia geminata</i>) in Catskill mountain streams, New York. <i>Aquatic Sciences</i> , 2014, 76, 553-564.	0.6	18
40	Microplastic selects for convergent microbiomes from distinct riverine sources. <i>Freshwater Science</i> , 2020, 39, 281-291.	0.9	18
41	Environmental drivers of leaf breakdown in an urban watershed. <i>Freshwater Science</i> , 2016, 35, 311-323.	0.9	17
42	Anthropogenic Litter Abundance and Accumulation Rates Point to Seasonal Litter Sources on a Great Lakes Beach. <i>Journal of Contemporary Water Research and Education</i> , 2017, 160, 72-84.	0.7	16
43	The effect of floods on ecosystem metabolism in suburban streams. <i>Freshwater Science</i> , 2019, 38, 412-424.	0.9	15
44	Wastewater influences nitrogen dynamics in a coastal catchment during a prolonged drought. <i>Limnology and Oceanography</i> , 2017, 62, S239-S257.	1.6	13
45	Quantitative Food Webs Indicate Modest Increases in the Transfer of Allochthonous and Autochthonous C to Macroinvertebrates Following a Large Wood Addition to a Temperate Headwater Stream. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	13
46	Are geothermal streams important sites of nutrient uptake in an agricultural and urbanising landscape (Rotorua, New Zealand)?. <i>Freshwater Biology</i> , 2012, 57, 116-128.	1.2	9
47	Size and density of upside-down jellyfish, <i>Cassiopea</i> sp., and their impact on benthic fluxes in a Caribbean lagoon. <i>Marine Environmental Research</i> , 2020, 154, 104845.	1.1	9
48	Distribution and transport of microplastic and fine particulate organic matter in urban streams. <i>Ecological Applications</i> , 2021, 31, e02429.	1.8	9
49	Trash Dance: Anthropogenic Litter and Organic Matter Co-Accumulate on Urban Beaches. <i>Geosciences (Switzerland)</i> , 2020, 10, 335.	1.0	8
50	Ribbed mussels <i>Geukensia demissa</i> enhance nitrogen-removal services but not plant growth in restored eutrophic salt marshes. <i>Marine Ecology - Progress Series</i> , 2019, 631, 67-80.	0.9	8
51	Characterizing lentic habitats in golf courses and adjacent green spaces: water quality, water chemistry, pesticide concentrations, and algal concentrations. <i>Journal of Freshwater Ecology</i> , 2020, 35, 507-522.	0.5	3
52	Dynamics of large wood added to Midwestern USA streams. <i>River Research and Applications</i> , 2021, 37, 843-857.	0.7	0
53	Inputs, Occurrence and Effects of Pharmaceuticals and Microplastics in Freshwater Ecosystems. , 2021, , .		0