

James B Heffernan

List of Publications by Year in Descending Order

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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.

73
papers

3,023
citations

30
h-index

54
g-index

77
ext. papers

3,580
ext. citations

5.3
avg, IF

5.24
L-index

#	Paper	IF	Citations
73	Light and flow regimes regulate the metabolism of rivers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	4
72	Hypoxia dynamics and spatial distribution in a low gradient river. <i>Limnology and Oceanography</i> , 2021 , 66, 2251-2265	4.8	2
71	Competition Among Limestone Depressions Leads to Self-Organized Regular Patterning on a Flat Landscape. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2021JF006072	3.8	1
70	A seasonally dynamic model of light at the stream surface. <i>Freshwater Science</i> , 2021 , 40, 286-301	2	5
69	A Multiscale Approach to Timescale Analysis: Isolating Diel Signals from Solute Concentration Time Series. <i>Environmental Science & Technology</i> , 2021 , 55, 12731-12738	10.3	3
68	Residential yard management and landscape cover affect urban bird community diversity across the continental USA. <i>Ecological Applications</i> , 2021 , 31, e02455	4.9	6
67	Urban soil carbon and nitrogen converge at a continental scale. <i>Ecological Monographs</i> , 2020 , 90, e014019		15
66	Estimating Benthic Light Regimes Improves Predictions of Primary Production and constrains Light-Use Efficiency in Streams and Rivers. <i>Ecosystems</i> , 2020 , 24, 825	3.9	8
65	How Old Are Marshes on the East Coast, USA? Complex Patterns in Wetland Age Within and Among Regions. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089415	4.9	3
64	Bioavailability and compositional changes of dissolved organic matter in urban headwaters. <i>Aquatic Sciences</i> , 2020 , 82, 1	2.5	3
63	Municipal regulation of residential landscapes across US cities: Patterns and implications for landscape sustainability. <i>Journal of Environmental Management</i> , 2020 , 275, 111132	7.9	13
62	Interactions Between Physical Template and Self-organization Shape Plant Dynamics in a Stream Ecosystem. <i>Ecosystems</i> , 2020 , 23, 891-905	3.9	2
61	Initiation and Development of Wetlands in Southern Florida Karst Landscape Associated With Accumulation of Organic Matter and Vegetation Evolution. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 1604-1617	3.7	6
60	Climate and lawn management interact to control C plant distribution in residential lawns across seven U.S. cities. <i>Ecological Applications</i> , 2019 , 29, e01884	4.9	6
59	Ecohydrologic processes and soil thickness feedbacks control limestone-weathering rates in a karst landscape. <i>Chemical Geology</i> , 2019 , 527, 118774	4.2	10
58	Mass balance implies Holocene development of a low-relief karst patterned landscape. <i>Chemical Geology</i> , 2019 , 527, 118782	4.2	7
57	Emergent productivity regimes of river networks. <i>Limnology and Oceanography Letters</i> , 2019 , 4, 173-181	7.9	30

56	Wetland Connectivity Thresholds and Flow Dynamics From Stage Measurements. <i>Water Resources Research</i> , 2019 , 55, 6018-6032	5.4	10
55	Stoichiometry and daily rhythms: experimental evidence shows nutrient limitation decouples N uptake from photosynthesis. <i>Ecology</i> , 2019 , 100, e02822	4.6	4
54	Residential household yard care practices along urban-exurban gradients in six climatically-diverse U.S. metropolitan areas. <i>PLoS ONE</i> , 2019 , 14, e0222630	3.7	4
53	Metabolic rhythms in flowing waters: An approach for classifying river productivity regimes. <i>Limnology and Oceanography</i> , 2019 , 64, 1835-1851	4.8	28
52	Coastal Wetland Distributions: Delineating Domains of Macroscale Drivers and Local Feedbacks. <i>Ecosystems</i> , 2019 , 22, 1256-1270	3.9	7
51	Ecohydrologic feedbacks controlling sizes of cypress wetlands in a patterned karst landscape. <i>Earth Surface Processes and Landforms</i> , 2019 , 44, 1178-1191	3.7	7
50	Engineered headwaters can act as sources of dissolved organic matter and nitrogen to urban stream networks. <i>Limnology and Oceanography Letters</i> , 2018 , 3, 215-224	7.9	15
49	Homogenization of plant diversity, composition, and structure in North American urban yards. <i>Ecosphere</i> , 2018 , 9, e02105	3.1	39
48	The metabolic regimes of flowing waters. <i>Limnology and Oceanography</i> , 2018 , 63, S99	4.8	157
47	Measuring and interpreting relationships between nutrient supply, demand, and limitation. <i>Freshwater Science</i> , 2018 , 37, 448-455	2	26
46	Artificial Aquatic Ecosystems. <i>Water (Switzerland)</i> , 2018 , 10, 1096	3	21
45	The metabolic regimes of 356 rivers in the United States. <i>Scientific Data</i> , 2018 , 5, 180292	8.2	36
44	A multi-city comparison of front and backyard differences in plant species diversity and nitrogen cycling in residential landscapes. <i>Landscape and Urban Planning</i> , 2018 , 178, 102-111	7.7	13
43	Sediment chemistry of urban stormwater ponds and controls on denitrification. <i>Ecosphere</i> , 2018 , 9, e02318	3.1	17
42	Ecological homogenization of residential macrosystems. <i>Nature Ecology and Evolution</i> , 2017 , 1, 191	12.3	44
41	Continental-scale homogenization of residential lawn plant communities. <i>Landscape and Urban Planning</i> , 2017 , 165, 54-63	7.7	54
40	Fertilizer Management and Environmental Factors Drive N ₂ O and NO ₃ Losses in Corn: A Meta-Analysis. <i>Soil Science Society of America Journal</i> , 2017 , 81, 1191-1202	2.5	63
39	Land use and topography bend and break fractal rules of water body size-distributions. <i>Limnology and Oceanography Letters</i> , 2017 , 2, 71-80	7.9	9

38	Satisfaction, water and fertilizer use in the American residential macrosystem. <i>Environmental Research Letters</i> , 2016 , 11, 034004	6.2	20
37	Ecosystem services in managing residential landscapes: priorities, value dimensions, and cross-regional patterns. <i>Urban Ecosystems</i> , 2016 , 19, 95-113	2.8	66
36	Plant nitrogen concentration and isotopic composition in residential lawns across seven US cities. <i>Oecologia</i> , 2016 , 181, 271-85	2.9	24
35	Convergence of microclimate in residential landscapes across diverse cities in the United States. <i>Landscape Ecology</i> , 2016 , 31, 101-117	4.3	59
34	Designer Ecosystems: Incorporating Design Approaches into Applied Ecology. <i>Annual Review of Environment and Resources</i> , 2015 , 40, 419-443	17.2	27
33	Convergent Surface Water Distributions in U.S. Cities. <i>Ecosystems</i> , 2014 , 17, 685-697	3.9	47
32	Direct and Indirect Effects of Dissolved Organic Matter Source and Concentration on Denitrification in Northern Florida Rivers. <i>Ecosystems</i> , 2014 , 17, 14-28	3.9	27
31	Evidence of biogeomorphic patterning in a low-relief karst landscape. <i>Earth Surface Processes and Landforms</i> , 2014 , 39, 2027-2037	3.7	18
30	Environmentally-mediated consumer control of algal proliferation in Florida springs. <i>Freshwater Biology</i> , 2014 , 59, 2009-2023	3.1	8
29	Macrosystems ecology: understanding ecological patterns and processes at continental scales. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 5-14	5.5	230
28	Morphological characteristics of urban water bodies: mechanisms of change and implications for ecosystem function 2014 , 24, 1070-84		64
27	Nutrient limitation and physiology mediate the fine-scale (de)coupling of biogeochemical cycles. <i>American Naturalist</i> , 2014 , 184, 384-406	3.7	23
26	Assessing the homogenization of urban land management with an application to US residential lawn care. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4432-7	11.5	139
25	Ecological homogenization of urban USA. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 74-81	5.5	244
24	Nutrient flux, uptake, and autotrophic limitation in streams and rivers. <i>Freshwater Science</i> , 2014 , 33, 85-98		31
23	Diel phosphorus variation and the stoichiometry of ecosystem metabolism in a large spring-fed river. <i>Ecological Monographs</i> , 2013 , 83, 155-176	9	68
22	On the multiple ecological roles of water in river networks. <i>Ecosphere</i> , 2013 , 4, art17	3.1	37
21	Discharge competence and pattern formation in peatlands: a meta-ecosystem model of the Everglades ridge-slough landscape. <i>PLoS ONE</i> , 2013 , 8, e64174	3.7	22

20	Plant-microbe interactions and nitrogen dynamics during wetland establishment in a desert stream. <i>Biogeochemistry</i> , 2012 , 107, 379-391	3.8	8
19	Inference of riverine nitrogen processing from longitudinal and diel variation in dual nitrate isotopes. <i>Journal of Geophysical Research</i> , 2012 , 117,		37
18	Denitrification and inference of nitrogen sources in the karstic Floridan Aquifer. <i>Biogeosciences</i> , 2012 , 9, 1671-1690	4.6	40
17	Reciprocal Biotic Control on Hydrology, Nutrient Gradients, and Landform in the Greater Everglades. <i>Critical Reviews in Environmental Science and Technology</i> , 2011 , 41, 395-429	11.1	29
16	Algal blooms and the nitrogen-enrichment hypothesis in Florida springs: evidence, alternatives, and adaptive management 2010 , 20, 816-29		48
15	Hydrologic and biotic influences on nitrate removal in a subtropical spring-fed river. <i>Limnology and Oceanography</i> , 2010 , 55, 249-263	4.8	43
14	Direct and indirect coupling of primary production and diel nitrate dynamics in a subtropical spring-fed river. <i>Limnology and Oceanography</i> , 2010 , 55, 677-688	4.8	56
13	Hydrologic Modification and the Loss of Self-organized Patterning in the Ridge-Blough Mosaic of the Everglades. <i>Ecosystems</i> , 2010 , 13, 813-827	3.9	57
12	Direct and indirect coupling of primary production and diel nitrate dynamics in a subtropical spring-fed river 2010 , 55, 677		72
11	Consequences of a biogeomorphic regime shift for the hyporheic zone of a Sonoran Desert stream. <i>Freshwater Biology</i> , 2008 , 53, 1954-1968	3.1	32
10	Wetlands as an alternative stable state in desert streams. <i>Ecology</i> , 2008 , 89, 1261-71	4.6	80
9	Unintended Consequences of Urbanization for Aquatic Ecosystems: A Case Study from the Arizona Desert. <i>BioScience</i> , 2008 , 58, 715-727	5.7	47
8	Functional ecomorphology: Feedbacks between form and function in fluvial landscape ecosystems. <i>Geomorphology</i> , 2007 , 89, 84-96	4.3	77
7	RIPARIAN ZONES INCREASE REGIONAL SPECIES RICHNESS BY HARBORING DIFFERENT, NOT MORE, SPECIES. <i>Ecology</i> , 2005 , 86, 56-62	4.6	293
6	Nutrient mobilization and processing in Sonoran desert riparian soils following artificial re-wetting. <i>Biogeochemistry</i> , 2004 , 70, 117-134	3.8	22
5	Effects of Urbanization on Nutrient Biogeochemistry of Aridland Streams. <i>Geophysical Monograph Series</i> , 2004 , 129-146	1.1	6
4	HORIZONS IN STREAM BIOGEOCHEMISTRY: FLOWPATHS TO PROGRESS. <i>Ecology</i> , 2004 , 85, 2369-2379	4.6	121
3	The influence of dissolved nutrients and particulate organic matter quality on microbial respiration and biomass in a forest stream. <i>Freshwater Biology</i> , 2003 , 48, 1925-1937	3.1	118

2 Ecological homogenisation in North American urban yards: vegetation diversity, composition, and structure 3

1 Propagation of inflowing urban stormwater pulses through reservoir embayments. *Urban Ecosystems*,1 2.8