

# Emily H Stanley

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9537795/emily-h-stanley-publications-by-citations.pdf>

**Version:** 2024-04-29

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.

138  
papers

8,326  
citations

50  
h-index

89  
g-index

143  
ext. papers

9,663  
ext. citations

5.8  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
138	THE FUNCTIONAL SIGNIFICANCE OF THE HYPORHEIC ZONE IN STREAMS AND RIVERS. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>1998</b> , 29, 59-81		776
137	State of the World's Freshwater Ecosystems: Physical, Chemical, and Biological Changes. <i>Annual Review of Environment and Resources</i> , <b>2011</b> , 36, 75-99	17.2	520
136	Ecosystem Expansion and Contraction in Streams Desert streams vary in both space and time and fluctuate dramatically in size. <i>BioScience</i> , <b>1997</b> , 47, 427-435	5.7	345
135	Landscape indicators of human impacts to riverine systems <b>2002</b> , 64, 118-128		265
134	. <i>Frontiers in Ecology and the Environment</i> , <b>2003</b> , 1, 15-22	5.5	235
133	Process-Based Ecological River Restoration: Visualizing Three-Dimensional Connectivity and Dynamic Vectors to Recover Lost Linkages. <i>Ecology and Society</i> , <b>2006</b> , 11,	4.1	228
132	The ecology of methane in streams and rivers: patterns, controls, and global significance. <i>Ecological Monographs</i> , <b>2016</b> , 86, 146-171	9	219
131	Ecology under lake ice. <i>Ecology Letters</i> , <b>2017</b> , 20, 98-111	10	202
130	Contemporary changes in dissolved organic carbon (DOC) in human-dominated rivers: is there a role for DOC management?. <i>Freshwater Biology</i> , <b>2012</b> , 57, 26-42	3.1	187
129	Short-Term Changes in Channel Form and Macroinvertebrate Communities Following Low-Head Dam Removal. <i>Journal of the North American Benthological Society</i> , <b>2002</b> , 21, 172-187		158
128	The metabolic regimes of flowing waters. <i>Limnology and Oceanography</i> , <b>2018</b> , 63, S99	4.8	157
127	BioTIME: A database of biodiversity time series for the Anthropocene. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 760-786	6.1	153
126	Lake microbial communities are resilient after a whole-ecosystem disturbance. <i>ISME Journal</i> , <b>2012</b> , 6, 2153-67	11.9	143
125	Stream ecosystem response to small dam removal: Lessons from the Heartland. <i>Geomorphology</i> , <b>2005</b> , 71, 227-244	4.3	138
124	Cross-scale interactions: quantifying multi-scaled cause-effect relationships in macrosystems. <i>Frontiers in Ecology and the Environment</i> , <b>2014</b> , 12, 65-73	5.5	136
123	Spatial Extrapolation: The Science of Predicting Ecological Patterns and Processes. <i>BioScience</i> , <b>2004</b> , 54, 310	5.7	136
122	Integrating aquatic and terrestrial components to construct a complete carbon budget for a north temperate lake district. <i>Global Change Biology</i> , <b>2011</b> , 17, 1193-1211	11.4	129

121	Channel adjustments following two dam removals in Wisconsin. <i>Water Resources Research</i> , <b>2003</b> , 39,	5.4	129
120	Effective discharge analysis of ecological processes in streams. <i>Water Resources Research</i> , <b>2005</b> , 41,	5.4	123
119	Rapid Nitrate Loss and Denitrification in a Temperate River Floodplain. <i>Biogeochemistry</i> , <b>2005</b> , 75, 43-64	3.8	122
118	A Geomorphic Perspective on Nutrient Retention Following Dam Removal. <i>BioScience</i> , <b>2002</b> , 52, 693	5.7	118
117	Emissions of carbon dioxide and methane from a headwater stream network of interior Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 482-494	3.7	105
116	Understanding Regional Change: A Comparison of Two Lake Districts. <i>BioScience</i> , <b>2007</b> , 57, 323-335	5.7	103
115	The evolving legacy of disturbance in stream ecology: concepts, contributions, and coming challenges. <i>Journal of the North American Benthological Society</i> , <b>2010</b> , 29, 67-83		100
114	Nutrient retention in a point-source-enriched stream. <i>Journal of the North American Benthological Society</i> , <b>2005</b> , 24, 29-47		96
113	How to Avoid Train Wrecks When Using Science in Environmental Problem Solving. <i>BioScience</i> , <b>2002</b> , 52, 1127	5.7	87
112	Environmental science. Aging infrastructure and ecosystem restoration. <i>Science</i> , <b>2008</b> , 319, 286-7	33.3	86
111	CO2 and CH4 emissions from streams in a lake-rich landscape: Patterns, controls, and regional significance. <i>Global Biogeochemical Cycles</i> , <b>2014</b> , 28, 197-210	5.9	82
110	Stating mechanisms and refining criteria for ecologically successful river restoration: a comment on Palmer et al. (2005). <i>Journal of Applied Ecology</i> , <b>2005</b> , 42, 218-222	5.8	80
109	Ecological Forecasting and the Urbanization of Stream Ecosystems: Challenges for Economists, Hydrologists, Geomorphologists, and Ecologists. <i>Ecosystems</i> , <b>2003</b> , 6, 659-674	3.9	79
108	Fate of allochthonous dissolved organic carbon in lakes: a quantitative approach. <i>PLoS ONE</i> , <b>2011</b> , 6, e21884	3.7	79
107	GEOMORPHIC ANALOGIES FOR ASSESSING PROBABLE CHANNEL RESPONSE TO DAM REMOVAL1. <i>Journal of the American Water Resources Association</i> , <b>2002</b> , 38, 1567-1579	2.1	77
106	LAGOS-NE: a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of US lakes. <i>GigaScience</i> , <b>2017</b> , 6, 1-22	7.6	75
105	Hydrogeomorphic controls on phosphorus retention in streams. <i>Water Resources Research</i> , <b>2003</b> , 39,	5.4	75
104	Building a multi-scaled geospatial temporal ecology database from disparate data sources: fostering open science and data reuse. <i>GigaScience</i> , <b>2015</b> , 4, 28	7.6	73

103	Changes in the dissolved nitrogen pool across land cover gradients in Wisconsin streams <b>2008</b> , 18, 1579-90		73
102	Toward policies and decision-making for dam removal. <i>Environmental Management</i> , <b>2003</b> , 31, 453-65	3.1	70
101	Heating up a cold subject: prospects for under-ice plankton research in lakes. <i>Journal of Plankton Research</i> , <b>2015</b> , 37, 277-284	2.2	68
100	EFFECT OF A POINT SOURCE INPUT ON STREAM NUTRIENT RETENTION <sup>1</sup> . <i>Journal of the American Water Resources Association</i> , <b>2001</b> , 37, 1291-1299	2.1	65
99	Integrating Landscape Carbon Cycling: Research Needs for Resolving Organic Carbon Budgets of Lakes. <i>Ecosystems</i> , <b>2015</b> , 18, 363-375	3.9	62
98	Regional variability among nonlinear chlorophyll <sup>a</sup> -phosphorus relationships in lakes. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 1691-1703	4.8	62
97	Effects of water loss on primary production: A landscape-scale model. <i>Aquatic Sciences</i> , <b>2004</b> , 66, 130-138	3.5	60
96	Effects of restoration and reflooding on soil denitrification in a leveed Midwestern floodplain <b>2007</b> , 17, 2365-76		56
95	Long-term decline in carbon dioxide supersaturation in rivers across the contiguous United States. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	55
94	LAKE DISSOLVED INORGANIC CARBON AND DISSOLVED OXYGEN: CHANGING DRIVERS FROM DAYS TO DECADES. <i>Ecological Monographs</i> , <b>2006</b> , 76, 343-363	9	54
93	Dam removal in the United States: Emerging needs for science and policy. <i>Eos</i> , <b>2003</b> , 84, 29	1.5	54
92	SEDIMENT-PHOSPHORUS RELATIONSHIPS IN THREE NORTHCENTRAL OKLAHOMA STREAMS. <i>Transactions of the American Society of Agricultural Engineers</i> , <b>1999</b> , 42, 1709-1714		53
91	Ebullitive methane emissions from oxygenated wetland streams. <i>Global Change Biology</i> , <b>2014</b> , 20, 3408-3424	2.4	52
90	Response of Unionid Mussels to Dam Removal in Koshkonong Creek, Wisconsin (USA). <i>Hydrobiologia</i> , <b>2004</b> , 525, 157-165	2.4	51
89	Empirical modeling of light availability in rivers. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		50
88	Long-Term Ecological Research in a Human-Dominated World. <i>BioScience</i> , <b>2012</b> , 62, 342-353	5.7	49
87	Vegetation development and restoration potential of drained reservoirs following dam removal in Wisconsin. <i>River Research and Applications</i> , <b>2006</b> , 22, 281-295	2.3	48
86	Basin scale controls on CO <sub>2</sub> and CH <sub>4</sub> emissions from the Upper Mississippi River. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 1973-1979	4.9	47

85	Do dams and levees impact nitrogen cycling? Simulating the effects of flood alterations on floodplain denitrification. <i>Global Change Biology</i> , <b>2005</b> , 11, 1352-1367	11.4	45
84	Benthic sediment influence on dissolved phosphorus concentrations in a headwater stream. <i>Biogeochemistry</i> , <b>2007</b> , 84, 297-309	3.8	44
83	Unexpected stasis in a changing world: Lake nutrient and chlorophyll trends since 1990. <i>Global Change Biology</i> , <b>2017</b> , 23, 5455-5467	11.4	43
82	Downstream benthic responses to small dam removal in a coldwater stream. <i>River Research and Applications</i> , <b>2008</b> , 24, 804-822	2.3	42
81	Light as a first-order control on ecosystem structure in a temperate stream. <i>Ecohydrology</i> , <b>2011</b> , 4, 422-433	4.3	39
80	Nutrient Retention and the Problem of Hydrologic Disconnection in Streams and Wetlands. <i>Ecosystems</i> , <b>2012</b> , 15, 435-449	3.9	36
79	Stream channels in peatlands: The role of biological processes in controlling channel form. <i>Geomorphology</i> , <b>2007</b> , 89, 97-110	4.3	36
78	The metabolic regimes of 356 rivers in the United States. <i>Scientific Data</i> , <b>2018</b> , 5, 180292	8.2	36
77	Decadal oscillation of lakes and aquifers in the upper Great Lakes region of North America: Hydroclimatic implications. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 456-462	4.9	35
76	Optical water quality in rivers. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	35
75	Condition, Growth, and Reproductive Styles of Fishes Exposed to Different Environmental Regimes in a Prairie Drainage. <i>Environmental Biology of Fishes</i> , <b>2000</b> , 59, 99-109	1.6	35
74	Quantifying lake allochthonous organic carbon budgets using a simple equilibrium model. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 167-181	4.8	34
73	Ice duration drives winter nitrate accumulation in north temperate lakes. <i>Limnology and Oceanography Letters</i> , <b>2017</b> , 2, 177-186	7.9	33
72	ANALYSIS AND CONSERVATION IMPLICATIONS OF LANDSCAPE CHANGE IN THE WISCONSIN RIVER FLOODPLAIN, USA <b>2003</b> , 13, 416-431		33
71	Evaluating the influence of macrophytes on algal and bacterial production in multiple habitats of a freshwater wetland. <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 1101-1111	4.8	33
70	Lake nutrient stoichiometry is less predictable than nutrient concentrations at regional and sub-continental scales. <i>Ecological Applications</i> , <b>2017</b> , 27, 1529-1540	4.9	32
69	Biases in lake water quality sampling and implications for macroscale research. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 1572-1585	4.8	32
68	Controls on methane concentrations and fluxes in streams draining human-dominated landscapes. <i>Ecological Applications</i> , <b>2016</b> , 26, 1581-1591	4.9	31

67	Significant methane ebullition from alpine permafrost rivers on the East Qinghai-Tibet Plateau. <i>Nature Geoscience</i> , <b>2020</b> , 13, 349-354	18.3	30
66	Effects of lakes and reservoirs on annual river nitrogen, phosphorus, and sediment export in agricultural and forested landscapes. <i>Hydrological Processes</i> , <b>2014</b> , 28, 5919-5937	3.3	30
65	Retention and transport of nutrients in a mature agricultural impoundment. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 91-103	3.7	30
64	Spatial heterogeneity of within-stream methane concentrations. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 1036-1048	3.7	29
63	Nitrification contributes to winter oxygen depletion in seasonally frozen forested lakes. <i>Biogeochemistry</i> , <b>2017</b> , 136, 119-129	3.8	28
62	CO2 time series patterns in contrasting headwater streams of North America. <i>Aquatic Sciences</i> , <b>2017</b> , 79, 473-486	2.5	27
61	Effects of dam removal on brook trout in a Wisconsin stream. <i>River Research and Applications</i> , <b>2007</b> , 23, 792-798	2.3	26
60	Source limitation of carbon gas emissions in high-elevation mountain streams and lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 952-964	3.7	25
59	Spatial early warning signals in a lake manipulation. <i>Ecosphere</i> , <b>2017</b> , 8, e01941	3.1	25
58	Basin-Scale Consequences of Agricultural Land Use on Benthic Light Availability and Primary Production Along a Sixth-Order Temperate River. <i>Ecosystems</i> , <b>2008</b> , 11, 1091-1105	3.9	24
57	Sediment size and nutrients regulate denitrification in a tropical stream. <i>Journal of the North American Benthological Society</i> , <b>2009</b> , 28, 480-490		23
56	Comparison of regional stream and lake chemistry: Differences, similarities, and potential drivers. <i>Limnology and Oceanography</i> , <b>2011</b> , 56, 1551-1562	4.8	23
55	Channel morphology and P uptake following removal of a small dam. <i>Journal of the North American Benthological Society</i> , <b>2006</b> , 25, 556-568		23
54	Large Uncertainty in Estimating pCO2 From Carbonate Equilibria in Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 2909-2924	3.7	22
53	Variation in nutrient limitation of lotic and lentic algal communities in a Texas (USA) river. <i>Hydrobiologia</i> , <b>1990</b> , 206, 61-71	2.4	20
52	Prediction of lake depth across a 17-state region in the United States. <i>Inland Waters</i> , <b>2016</b> , 6, 314-324	2.4	19
51	Nitrogen cycling in a freshwater estuary. <i>Biogeochemistry</i> , <b>2016</b> , 127, 199-216	3.8	19
50	Limited nitrate retention capacity in the Upper Mississippi River. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 074030	6.2	19

49	Nitrogen and Phosphorus Loads to Temperate Seepage Lakes Associated With Allochthonous Dissolved Organic Carbon Loads. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5481-5490	4.9	18
48	Global carbon dioxide efflux from rivers enhanced by high nocturnal emissions. <i>Nature Geoscience</i> , <b>2021</b> , 14, 289-294	18.3	18
47	Large Spatial and Temporal Variability of Carbon Dioxide and Methane in a Eutrophic Lake. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 2248-2266	3.7	17
46	Lake shoreline in the contiguous United States: quantity, distribution and sensitivity to observation resolution. <i>Freshwater Biology</i> , <b>2014</b> , 59, 213-223	3.1	17
45	The ecology of methane in streams and rivers: patterns, controls, and global significance. <i>Ecological Monographs</i> , <b>2015</b> ,	9	16
44	Inorganic Nitrogen Regimes in an Alabama Wetland. <i>Journal of the North American Benthological Society</i> , <b>1997</b> , 16, 820-832		16
43	Spatial Autocorrelation of Denitrification in a Restored and a Natural Floodplain. <i>Wetlands</i> , <b>2014</b> , 34, 89-100	1.7	15
42	Comparisons of wetland and drainage lake influences on stream dissolved carbon concentrations and yields in a north temperate lake-rich region. <i>Aquatic Sciences</i> , <b>2013</b> , 75, 619-630	2.5	15
41	Quantifying phosphorus uptake using pulse and steady-state approaches in streams. <i>Limnology and Oceanography: Methods</i> , <b>2009</b> , 7, 498-508	2.6	15
40	Macroscale patterns of synchrony identify complex relationships among spatial and temporal ecosystem drivers. <i>Ecosphere</i> , <b>2017</b> , 8, e02024	3.1	14
39	Stochastic dynamics of Cyanobacteria in long-term high-frequency observations of a eutrophic lake. <i>Limnology and Oceanography Letters</i> , <b>2020</b> , 5, 331-336	7.9	13
38	SurfaceSubsurface Interactions: Past, Present, and Future <b>2000</b> , 405-417		13
37	Dam Removal: Physical, Biological, and Societal Considerations <b>2000</b> , 1		13
36	Studies of insect temporal trends must account for the complex sampling histories inherent to many long-term monitoring efforts. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 589-591	12.3	13
35	Multi-decadal improvement in US Lake water clarity. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 055025	6.2	13
34	Exploring Potential Spatial-Temporal Links Between Fluvial Geomorphology and Nutrient-Periphyton Dynamics in Streams Using Simulation Models. <i>Annals of the American Association of Geographers</i> , <b>2006</b> , 96, 687-698		12
33	Outsized nutrient contributions from small tributaries to a Great Lake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 28175-28182	11.5	12
32	Does lake size matter? Combining morphology and process modeling to examine the contribution of lake classes to population-scale processes. <i>Inland Waters</i> , <b>2015</b> , 5, 7-14	2.4	11

31	Evidence for regional nitrogen stress on chlorophyll a in lakes across large landscape and climate gradients. <i>Limnology and Oceanography</i> , <b>2018</b> , 63, S324	4.8	11
30	Influence of soil temperature and moisture on the dissolved carbon, nitrogen, and phosphorus in organic matter entering lake ecosystems. <i>Biogeochemistry</i> , <b>2018</b> , 139, 293-305	3.8	10
29	Effects of levees on soil microbial activity in a large river floodplain. <i>River Research and Applications</i> , <b>2005</b> , 21, 19-25	2.3	10
28	Spatial patterns of enzymatic activity in large water bodies: Ship-borne measurements of beta-D-glucuronidase activity as a rapid indicator of microbial water quality. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 1742-1752	10.2	10
27	Assessing the influence of upstream drainage lakes on fluvial organic carbon in a wetland-rich region. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		9
26	Can algal uptake stop NO <sub>3</sub> (-) pollution?. <i>Nature</i> , <b>2011</b> , 477, E3; discussion E3-4	50.4	9
25	Effects of Vascular Plants on Seasonal Pore Water Carbon Dynamics in a Lotic Wetland. <i>Wetlands</i> , <b>2010</b> , 30, 889-900	1.7	8
24	Environmental factors influencing the composition and distribution of the hyporheic fauna in Oklahoma streams: Variation across ecoregions. <i>Archiv für Hydrobiologie</i> , <b>2003</b> , 158, 1-23		8
23	Influence of vegetation and seasonal flow patterns on parafluvial nitrogen retention in a 7th-order river. <i>Journal of the North American Benthological Society</i> , <b>2010</b> , 29, 904-917		6
22	A Sensitive Method for the Measurement of Ammonium in Soil Extract and Water. <i>Communications in Soil Science and Plant Analysis</i> , <b>2003</b> , 34, 2193-2201	1.5	6
21	Information management at the North Temperate Lakes Long-term Ecological Research site □ Successful support of research in a large, diverse, and long running project. <i>Ecological Informatics</i> , <b>2016</b> , 36, 201-208	4.2	5
20	Distinct Fluvial Patterns of a Headwater Stream Network Underlain by Discontinuous Permafrost. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2014</b> , 46, 344-354	1.8	4
19	Resilience: insights from the U.S. LongTerm Ecological Research Network. <i>Ecosphere</i> , <b>2021</b> , 12, e03434	3.1	4
18	Climate and food web effects on the spring clear-water phase in two north-temperate eutrophic lakes. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 30-46	4.8	4
17	Light and flow regimes regulate the metabolism of rivers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	4
16	Comparing Spatial and Temporal Variation of Lake-Atmosphere Carbon Dioxide Fluxes Using Multiple Methods. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2019JG005623	3.7	3
15	Controls on methane concentrations and fluxes in streams draining human-dominated landscapes <b>2015</b> ,		2
14	Synergies Among Environmental Science Research and Monitoring Networks: A Research Agenda. <i>Earth's Future</i> , <b>2021</b> , 9, e2020EF001631	7.9	2



13	Editors Are Editors, Not Oracles. <i>Bulletin of the Ecological Society of America</i> , <b>2014</b> , 95, 342-346	0.7	1
12	REPLY TO DISCUSSION by Jeffrey A. Thornton <sup>1</sup> . <i>Journal of the American Water Resources Association</i> , <b>2003</b> , 39, 1311-1312	2.1	1
11	Floods increase carbon dioxide and methane fluxes in agricultural streams. <i>Freshwater Biology</i> , <b>2021</b> , 66, 62-77	3.1	1
10	Inconsistent browning of northeastern U.S. lakes despite increased precipitation and recovery from acidification. <i>Ecosphere</i> , <b>2021</b> , 12, e03415	3.1	1
9	Comparison of total nitrogen data from direct and Kjeldahl-based approaches in integrated data sets. <i>Limnology and Oceanography: Methods</i> , <b>2019</b> , 17, 639-649	2.6	0
8	Environmental controls on long-term growth of freshwater mussels in an oligotrophic lake. <i>Freshwater Science</i> , <b>2021</b> , 40, 316-327	2	0
7	Unexpectedly minor nitrous oxide emissions from fluvial networks draining permafrost catchments of the East Qinghai-Tibet Plateau.. <i>Nature Communications</i> , <b>2022</b> , 13, 950	17.4	0
6	Understanding Ecosystem Effects of Dams <b>2013</b> , 253-258		
5	LONG-TERM PERSPECTIVES ON LAKE SCIENCE AND MANAGEMENT. <i>Limnology and Oceanography Bulletin</i> , <b>2013</b> , 22, 74-75	0.9	
4	Stream Ecosystem Response to Small Dam Removals <b>2011</b> , 41-56		
3	Stream Ecosystem Response to Experimental Dam Removals <b>2005</b> , 1		
2	Understanding Ecosystem Effects of Dams <b>2021</b> , 287-291		
1	Evaluating the performance of temporal and spatial early warning statistics of algal blooms.. <i>Ecological Applications</i> , <b>2022</b> , e2616	4.9	