

Emily H Stanley

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.

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	Unexpectedly minor nitrous oxide emissions from fluvial networks draining permafrost catchments of the East Qinghai-Tibet Plateau.. <i>Nature Communications</i> , 2022 , 13, 950	17.4	0
137	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
136	Evaluating the performance of temporal and spatial early warning statistics of algal blooms.. <i>Ecological Applications</i> , 2022 , e2616	4.9	
135	Floods increase carbon dioxide and methane fluxes in agricultural streams. <i>Freshwater Biology</i> , 2021 , 66, 62-77	3.1	1
134	Inconsistent browning of northeastern U.S. lakes despite increased precipitation and recovery from acidification. <i>Ecosphere</i> , 2021 , 12, e03415	3.1	1
133	Synergies Among Environmental Science Research and Monitoring Networks: A Research Agenda. <i>Earth's Future</i> , 2021 , 9, e2020EF001631	7.9	2
132	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> , 2021 , 5, 589-591	12.3	13
131	Global carbon dioxide efflux from rivers enhanced by high nocturnal emissions. <i>Nature Geoscience</i> , 2021 , 14, 289-294	18.3	18
130	Resilience: insights from the U.S. LongTerm Ecological Research Network. <i>Ecosphere</i> , 2021 , 12, e03434	3.1	4
129	Multi-decadal improvement in US Lake water clarity. <i>Environmental Research Letters</i> , 2021 , 16, 055025	6.2	13
128	Environmental controls on long-term growth of freshwater mussels in an oligotrophic lake. <i>Freshwater Science</i> , 2021 , 40, 316-327	2	0
127	Climate and food web effects on the spring clear-water phase in two north-temperate eutrophic lakes. <i>Limnology and Oceanography</i> , 2021 , 66, 30-46	4.8	4
126	Understanding Ecosystem Effects of Dams 2021 , 287-291		
125	Comparing Spatial and Temporal Variation of Lake-Atmosphere Carbon Dioxide Fluxes Using Multiple Methods. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005623	3.7	3
124	Significant methane ebullition from alpine permafrost rivers on the East Qinghai Tibet Plateau. <i>Nature Geoscience</i> , 2020 , 13, 349-354	18.3	30
123	Stochastic dynamics of Cyanobacteria in long-term high-frequency observations of a eutrophic lake. <i>Limnology and Oceanography Letters</i> , 2020 , 5, 331-336	7.9	13
122	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> , 2020 , 117, 28175-28182	11.5	12

121	Biases in lake water quality sampling and implications for macroscale research. <i>Limnology and Oceanography</i> , 2019 , 64, 1572-1585	4.8	32
120	Large Spatial and Temporal Variability of Carbon Dioxide and Methane in a Eutrophic Lake. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 2248-2266	3.7	17
119	Comparison of total nitrogen data from direct and Kjeldahl-based approaches in integrated data sets. <i>Limnology and Oceanography: Methods</i> , 2019 , 17, 639-649	2.6	0
118	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> , 2019 , 651, 1742-1752	10.2	10
117	The metabolic regimes of flowing waters. <i>Limnology and Oceanography</i> , 2018 , 63, S99	4.8	157
116	Influence of soil temperature and moisture on the dissolved carbon, nitrogen, and phosphorus in organic matter entering lake ecosystems. <i>Biogeochemistry</i> , 2018 , 139, 293-305	3.8	10
115	BioTIME: A database of biodiversity time series for the Anthropocene. <i>Global Ecology and Biogeography</i> , 2018 , 27, 760-786	6.1	153
114	Limited nitrate retention capacity in the Upper Mississippi River. <i>Environmental Research Letters</i> , 2018 , 13, 074030	6.2	19
113	Nitrogen and Phosphorus Loads to Temperate Seepage Lakes Associated With Allochthonous Dissolved Organic Carbon Loads. <i>Geophysical Research Letters</i> , 2018 , 45, 5481-5490	4.9	18
112	The metabolic regimes of 356 rivers in the United States. <i>Scientific Data</i> , 2018 , 5, 180292	8.2	36
111	Evidence for regional nitrogen stress on chlorophyll a in lakes across large landscape and climate gradients. <i>Limnology and Oceanography</i> , 2018 , 63, S324	4.8	11
110	Spatial heterogeneity of within-stream methane concentrations. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 1036-1048	3.7	29
109	Lake nutrient stoichiometry is less predictable than nutrient concentrations at regional and sub-continental scales. <i>Ecological Applications</i> , 2017 , 27, 1529-1540	4.9	32
108	Nitrification contributes to winter oxygen depletion in seasonally frozen forested lakes. <i>Biogeochemistry</i> , 2017 , 136, 119-129	3.8	28
107	Large Uncertainty in Estimating pCO ₂ From Carbonate Equilibria in Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 2909-2924	3.7	22
106	Macroscale patterns of synchrony identify complex relationships among spatial and temporal ecosystem drivers. <i>Ecosphere</i> , 2017 , 8, e02024	3.1	14
105	Unexpected stasis in a changing world: Lake nutrient and chlorophyll trends since 1990. <i>Global Change Biology</i> , 2017 , 23, 5455-5467	11.4	43
104	Ice duration drives winter nitrate accumulation in north temperate lakes. <i>Limnology and Oceanography Letters</i> , 2017 , 2, 177-186	7.9	33

103	Spatial early warning signals in a lake manipulation. <i>Ecosphere</i> , 2017 , 8, e01941	3.1	25
102	CO2 time series patterns in contrasting headwater streams of North America. <i>Aquatic Sciences</i> , 2017 , 79, 473-486	2.5	27
101	Ecology under lake ice. <i>Ecology Letters</i> , 2017 , 20, 98-111	10	202
100	LAGOS-NE: a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of US lakes. <i>GigaScience</i> , 2017 , 6, 1-22	7.6	75
99	Controls on methane concentrations and fluxes in streams draining human-dominated landscapes. <i>Ecological Applications</i> , 2016 , 26, 1581-1591	4.9	31
98	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> , 2016 , 36, 201-208	4.2	5
97	Prediction of lake depth across a 17-state region in the United States. <i>Inland Waters</i> , 2016 , 6, 314-324	2.4	19
96	Nitrogen cycling in a freshwater estuary. <i>Biogeochemistry</i> , 2016 , 127, 199-216	3.8	19
95	The ecology of methane in streams and rivers: patterns, controls, and global significance. <i>Ecological Monographs</i> , 2016 , 86, 146-171	9	219
94	Basin scale controls on CO2 and CH4 emissions from the Upper Mississippi River. <i>Geophysical Research Letters</i> , 2016 , 43, 1973-1979	4.9	47
93	Heating up a cold subject: prospects for under-ice plankton research in lakes. <i>Journal of Plankton Research</i> , 2015 , 37, 277-284	2.2	68
92	Source limitation of carbon gas emissions in high-elevation mountain streams and lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 952-964	3.7	25
91	Integrating Landscape Carbon Cycling: Research Needs for Resolving Organic Carbon Budgets of Lakes. <i>Ecosystems</i> , 2015 , 18, 363-375	3.9	62
90	Does lake size matter? Combining morphology and process modeling to examine the contribution of lake classes to population-scale processes. <i>Inland Waters</i> , 2015 , 5, 7-14	2.4	11
89	Building a multi-scaled geospatial temporal ecology database from disparate data sources: fostering open science and data reuse. <i>GigaScience</i> , 2015 , 4, 28	7.6	73
88	The ecology of methane in streams and rivers: patterns, controls, and global significance. <i>Ecological Monographs</i> , 2015 ,	9	16
87	Controls on methane concentrations and fluxes in streams draining human-dominated landscapes 2015 ,		2
86	Ebullitive methane emissions from oxygenated wetland streams. <i>Global Change Biology</i> , 2014 , 20, 3408-3424	2.4	52

85	Distinct Fluvial Patterns of a Headwater Stream Network Underlain by Discontinuous Permafrost. <i>Arctic, Antarctic, and Alpine Research</i> , 2014 , 46, 344-354	1.8	4
84	Spatial Autocorrelation of Denitrification in a Restored and a Natural Floodplain. <i>Wetlands</i> , 2014 , 34, 89-100	1.7	15
83	CO2 and CH4 emissions from streams in a lake-rich landscape: Patterns, controls, and regional significance. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 197-210	5.9	82
82	Decadal oscillation of lakes and aquifers in the upper Great Lakes region of North America: Hydroclimatic implications. <i>Geophysical Research Letters</i> , 2014 , 41, 456-462	4.9	35
81	Effects of lakes and reservoirs on annual river nitrogen, phosphorus, and sediment export in agricultural and forested landscapes. <i>Hydrological Processes</i> , 2014 , 28, 5919-5937	3.3	30
80	Quantifying lake allochthonous organic carbon budgets using a simple equilibrium model. <i>Limnology and Oceanography</i> , 2014 , 59, 167-181	4.8	34
79	Regional variability among nonlinear chlorophyll-phosphorus relationships in lakes. <i>Limnology and Oceanography</i> , 2014 , 59, 1691-1703	4.8	62
78	Editors Are Editors, Not Oracles. <i>Bulletin of the Ecological Society of America</i> , 2014 , 95, 342-346	0.7	1
77	Cross-scale interactions: quantifying multi-scaled cause-effect relationships in macrosystems. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 65-73	5.5	136
76	Lake shoreline in the contiguous United States: quantity, distribution and sensitivity to observation resolution. <i>Freshwater Biology</i> , 2014 , 59, 213-223	3.1	17
75	Understanding Ecosystem Effects of Dams 2013 , 253-258		
74	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> , 2013 , 75, 619-630	2.5	15
73	Emissions of carbon dioxide and methane from a headwater stream network of interior Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 482-494	3.7	105
72	Retention and transport of nutrients in a mature agricultural impoundment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 91-103	3.7	30
71	LONG-TERM PERSPECTIVES ON LAKE SCIENCE AND MANAGEMENT. <i>Limnology and Oceanography Bulletin</i> , 2013 , 22, 74-75	0.9	
70	Assessing the influence of upstream drainage lakes on fluvial organic carbon in a wetland-rich region. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		9
69	Nutrient Retention and the Problem of Hydrologic Disconnection in Streams and Wetlands. <i>Ecosystems</i> , 2012 , 15, 435-449	3.9	36
68	Contemporary changes in dissolved organic carbon (DOC) in human-dominated rivers: is there a role for DOC management?. <i>Freshwater Biology</i> , 2012 , 57, 26-42	3.1	187

67	Long-Term Ecological Research in a Human-Dominated World. <i>BioScience</i> , 2012 , 62, 342-353	5.7	49
66	Lake microbial communities are resilient after a whole-ecosystem disturbance. <i>ISME Journal</i> , 2012 , 6, 2153-67	11.9	143
65	State of the World's Freshwater Ecosystems: Physical, Chemical, and Biological Changes. <i>Annual Review of Environment and Resources</i> , 2011 , 36, 75-99	17.2	520
64	Stream Ecosystem Response to Small Dam Removals 2011 , 41-56		
63	Integrating aquatic and terrestrial components to construct a complete carbon budget for a north temperate lake district. <i>Global Change Biology</i> , 2011 , 17, 1193-1211	11.4	129
62	Light as a first-order control on ecosystem structure in a temperate stream. <i>Ecohydrology</i> , 2011 , 4, 422-433	4.3	39
61	Can algal uptake stop NO ₃ (-) pollution?. <i>Nature</i> , 2011 , 477, E3; discussion E3-4	50.4	9
60	Comparison of regional stream and lake chemistry: Differences, similarities, and potential drivers. <i>Limnology and Oceanography</i> , 2011 , 56, 1551-1562	4.8	23
59	Fate of allochthonous dissolved organic carbon in lakes: a quantitative approach. <i>PLoS ONE</i> , 2011 , 6, e21884	3.7	79
58	Effects of Vascular Plants on Seasonal Pore Water Carbon Dynamics in a Lotic Wetland. <i>Wetlands</i> , 2010 , 30, 889-900	1.7	8
57	The evolving legacy of disturbance in stream ecology: concepts, contributions, and coming challenges. <i>Journal of the North American Benthological Society</i> , 2010 , 29, 67-83		100
56	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> , 2010 , 29, 904-917		6
55	Sediment size and nutrients regulate denitrification in a tropical stream. <i>Journal of the North American Benthological Society</i> , 2009 , 28, 480-490		23
54	Quantifying phosphorus uptake using pulse and steady-state approaches in streams. <i>Limnology and Oceanography: Methods</i> , 2009 , 7, 498-508	2.6	15
53	Empirical modeling of light availability in rivers. <i>Journal of Geophysical Research</i> , 2008 , 113,		50
52	Optical water quality in rivers. <i>Water Resources Research</i> , 2008 , 44,	5.4	35
51	Environmental science. Aging infrastructure and ecosystem restoration. <i>Science</i> , 2008 , 319, 286-7	33.3	86
50	Changes in the dissolved nitrogen pool across land cover gradients in Wisconsin streams 2008 , 18, 1579-90		73

49	Basin-Scale Consequences of Agricultural Land Use on Benthic Light Availability and Primary Production Along a Sixth-Order Temperate River. <i>Ecosystems</i> , 2008 , 11, 1091-1105	3.9	24
48	Downstream benthic responses to small dam removal in a coldwater stream. <i>River Research and Applications</i> , 2008 , 24, 804-822	2.3	42
47	Understanding Regional Change: A Comparison of Two Lake Districts. <i>BioScience</i> , 2007 , 57, 323-335	5.7	103
46	Effects of dam removal on brook trout in a Wisconsin stream. <i>River Research and Applications</i> , 2007 , 23, 792-798	2.3	26
45	Benthic sediment influence on dissolved phosphorus concentrations in a headwater stream. <i>Biogeochemistry</i> , 2007 , 84, 297-309	3.8	44
44	Effects of restoration and reflooding on soil denitrification in a leveed Midwestern floodplain 2007 , 17, 2365-76		56
43	Stream channels in peatlands: The role of biological processes in controlling channel form. <i>Geomorphology</i> , 2007 , 89, 97-110	4.3	36
42	LAKE DISSOLVED INORGANIC CARBON AND DISSOLVED OXYGEN: CHANGING DRIVERS FROM DAYS TO DECADES. <i>Ecological Monographs</i> , 2006 , 76, 343-363	9	54
41	Channel morphology and P uptake following removal of a small dam. <i>Journal of the North American Benthological Society</i> , 2006 , 25, 556-568		23
40	Process-Based Ecological River Restoration: Visualizing Three-Dimensional Connectivity and Dynamic Vectors to Recover Lost Linkages. <i>Ecology and Society</i> , 2006 , 11,	4.1	228
39	Vegetation development and restoration potential of drained reservoirs following dam removal in Wisconsin. <i>River Research and Applications</i> , 2006 , 22, 281-295	2.3	48
38	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> , 2006 , 96, 687-698		12
37	Stream ecosystem response to small dam removal: Lessons from the Heartland. <i>Geomorphology</i> , 2005 , 71, 227-244	4.3	138
36	Nutrient retention in a point-source-enriched stream. <i>Journal of the North American Benthological Society</i> , 2005 , 24, 29-47		96
35	Effective discharge analysis of ecological processes in streams. <i>Water Resources Research</i> , 2005 , 41,	5.4	123
34	Stream Ecosystem Response to Experimental Dam Removals 2005 , 1		
33	Stating mechanisms and refining criteria for ecologically successful river restoration: a comment on Palmer et al. (2005). <i>Journal of Applied Ecology</i> , 2005 , 42, 218-222	5.8	80
32	Do dams and levees impact nitrogen cycling? Simulating the effects of flood alterations on floodplain denitrification. <i>Global Change Biology</i> , 2005 , 11, 1352-1367	11.4	45

31	Rapid Nitrate Loss and Denitrification in a Temperate River Floodplain. <i>Biogeochemistry</i> , 2005 , 75, 43-64	3.8	122
30	Effects of levees on soil microbial activity in a large river floodplain. <i>River Research and Applications</i> , 2005 , 21, 19-25	2.3	10
29	Response of Unionid Mussels to Dam Removal in Koshkonong Creek, Wisconsin (USA). <i>Hydrobiologia</i> , 2004 , 525, 157-165	2.4	51
28	Effects of water loss on primary production: A landscape-scale model. <i>Aquatic Sciences</i> , 2004 , 66, 130-138	3.5	60
27	Spatial Extrapolation: The Science of Predicting Ecological Patterns and Processes. <i>BioScience</i> , 2004 , 54, 310	5.7	136
26	A Sensitive Method for the Measurement of Ammonium in Soil Extract and Water. <i>Communications in Soil Science and Plant Analysis</i> , 2003 , 34, 2193-2201	1.5	6
25	ANALYSIS AND CONSERVATION IMPLICATIONS OF LANDSCAPE CHANGE IN THE WISCONSIN RIVER FLOODPLAIN, USA 2003 , 13, 416-431		33
24	Evaluating the influence of macrophytes on algal and bacterial production in multiple habitats of a freshwater wetland. <i>Limnology and Oceanography</i> , 2003 , 48, 1101-1111	4.8	33
23	Environmental factors influencing the composition and distribution of the hyporheic fauna in Oklahoma streams: Variation across ecoregions. <i>Archiv für Hydrobiologie</i> , 2003 , 158, 1-23		8
22	Toward policies and decision-making for dam removal. <i>Environmental Management</i> , 2003 , 31, 453-65	3.1	70
21	Ecological Forecasting and the Urbanization of Stream Ecosystems: Challenges for Economists, Hydrologists, Geomorphologists, and Ecologists. <i>Ecosystems</i> , 2003 , 6, 659-674	3.9	79
20	REPLY TO DISCUSSION by Jeffrey A. Thornton ¹ . <i>Journal of the American Water Resources Association</i> , 2003 , 39, 1311-1312	2.1	1
19	. <i>Frontiers in Ecology and the Environment</i> , 2003 , 1, 15-22	5.5	235
18	Channel adjustments following two dam removals in Wisconsin. <i>Water Resources Research</i> , 2003 , 39,	5.4	129
17	Dam removal in the United States: Emerging needs for science and policy. <i>Eos</i> , 2003 , 84, 29	1.5	54
16	Long-term decline in carbon dioxide supersaturation in rivers across the contiguous United States. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	55
15	Hydrogeomorphic controls on phosphorus retention in streams. <i>Water Resources Research</i> , 2003 , 39,	5.4	75
14	Landscape indicators of human impacts to riverine systems 2002 , 64, 118-128		265

13	GEOMORPHIC ANALOGIES FOR ASSESSING PROBABLE CHANNEL RESPONSE TO DAM REMOVAL1. <i>Journal of the American Water Resources Association</i> , 2002 , 38, 1567-1579	2.1	77
12	How to Avoid Train Wrecks When Using Science in Environmental Problem Solving. <i>BioScience</i> , 2002 , 52, 1127	5.7	87
11	A Geomorphic Perspective on Nutrient Retention Following Dam Removal. <i>BioScience</i> , 2002 , 52, 693	5.7	118
10	Short-Term Changes in Channel Form and Macroinvertebrate Communities Following Low-Head Dam Removal. <i>Journal of the North American Benthological Society</i> , 2002 , 21, 172-187		158
9	EFFECT OF A POINT SOURCE INPUT ON STREAM NUTRIENT RETENTION1. <i>Journal of the American Water Resources Association</i> , 2001 , 37, 1291-1299	2.1	65
8	Condition, Growth, and Reproductive Styles of Fishes Exposed to Different Environmental Regimes in a Prairie Drainage. <i>Environmental Biology of Fishes</i> , 2000 , 59, 99-109	1.6	35
7	SurfaceSubsurface Interactions: Past, Present, and Future 2000 , 405-417		13
6	Dam Removal: Physical, Biological, and Societal Considerations 2000 , 1		13
5	SEDIMENT-PHOSPHORUS RELATIONSHIPS IN THREE NORTHCENTRAL OKLAHOMA STREAMS. <i>Transactions of the American Society of Agricultural Engineers</i> , 1999 , 42, 1709-1714		53
4	THE FUNCTIONAL SIGNIFICANCE OF THE HYPORHEIC ZONE IN STREAMS AND RIVERS. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1998 , 29, 59-81		776
3	Inorganic Nitrogen Regimes in an Alabama Wetland. <i>Journal of the North American Benthological Society</i> , 1997 , 16, 820-832		16
2	Ecosystem Expansion and Contraction in StreamsDesert streams vary in both space and time and fluctuate dramatically in size. <i>BioScience</i> , 1997 , 47, 427-435	5.7	345
1	Variation in nutrient limitation of lotic and lentic algal communities in a Texas (USA) river. <i>Hydrobiologia</i> , 1990 , 206, 61-71	2.4	20