Stephen Carpenter

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Global Consequences of Land Use. Science, 2005, 309, 570-574.	12.6	9,451
2	Planetary boundaries: Guiding human development on a changing planet. Science, 2015, 347, 1259855.	12.6	7,124
3	Solutions for a cultivated planet. Nature, 2011, 478, 337-342.	27.8	5,821
4	Catastrophic shifts in ecosystems. Nature, 2001, 413, 591-596.	27.8	5,656
5	NONPOINT POLLUTION OF SURFACE WATERS WITH PHOSPHORUS AND NITROGEN. , 1998, 8, 559-568.		4,255
6	Early-warning signals for critical transitions. Nature, 2009, 461, 53-59.	27.8	3,286
7	Trophic Downgrading of Planet Earth. Science, 2011, 333, 301-306.	12.6	3,030
8	Complexity of Coupled Human and Natural Systems. Science, 2007, 317, 1513-1516.	12.6	2,705
9	Resilience Thinking: Integrating Resilience, Adaptability and Transformability. Ecology and Society, 2010, 15, .	2.3	2,469
10	Catastrophic regime shifts in ecosystems: linking theory to observation. Trends in Ecology and Evolution, 2003, 18, 648-656.	8.7	2,206
11	Cascading Trophic Interactions and Lake Productivity. BioScience, 1985, 35, 634-639.	4.9	2,183
12	Social-Ecological Resilience to Coastal Disasters. Science, 2005, 309, 1036-1039.	12.6	2,002
13	Science for managing ecosystem services: Beyond the Millennium Ecosystem Assessment. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1305-1312.	7.1	1,736
14	Anticipating Critical Transitions. Science, 2012, 338, 344-348.	12.6	1,607
15	Trophic cascades revealed in diverse ecosystems. Trends in Ecology and Evolution, 1999, 14, 483-488.	8.7	1,209
16	Stability and Diversity of Ecosystems. Science, 2007, 317, 58-62.	12.6	1,193
17	Scenario Planning: a Tool for Conservation in an Uncertain World. Conservation Biology, 2003, 17, 358-366.	4.7	1,068
18	Ecological Forecasts: An Emerging Imperative. Science, 2001, 293, 657-660.	12.6	774

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19	Regulation of Lake Primary Productivity by Food Web Structure. Ecology, 1987, 68, 1863-1876.	3.2	762
20	Reducing Phosphorus to Curb Lake Eutrophication is a Success. Environmental Science & Technology, 2016, 50, 8923-8929.	10.0	761
21	Human Impact on Erodable Phosphorus and Eutrophication: A Global Perspective. BioScience, 2001, 51, 227.	4.9	757
22	Ecosystem stewardship: sustainability strategies for a rapidly changing planet. Trends in Ecology and Evolution, 2010, 25, 241-249.	8.7	744
23	Early Warnings of Regime Shifts: A Whole-Ecosystem Experiment. Science, 2011, 332, 1079-1082.	12.6	723
24	MANAGEMENT OF EUTROPHICATION FOR LAKES SUBJECT TO POTENTIALLY IRREVERSIBLE CHANGE. , 1999, 9, 751-771.		711
25	WATER IN A CHANGING WORLD. , 2001, 11, 1027-1045.		709
26	State of the World's Freshwater Ecosystems: Physical, Chemical, and Biological Changes. Annual Review of Environment and Resources, 2011, 36, 75-99.	13.4	705
27	Principles for knowledge co-production in sustainability research. Nature Sustainability, 2020, 3, 182-190.	23.7	697
28	Rising variance: a leading indicator of ecological transition. Ecology Letters, 2006, 9, 311-318.	6.4	690
29	Eutrophication of aquatic ecosystems: Bistability and soil phosphorus. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10002-10005.	7.1	660
30	Methods for Detecting Early Warnings of Critical Transitions in Time Series Illustrated Using Simulated Ecological Data. PLoS ONE, 2012, 7, e41010.	2.5	638
31	Coupled Human and Natural Systems. Ambio, 2007, 36, 639-649.	5.5	601
32	Turning back from the brink: Detecting an impending regime shift in time to avert it. Proceedings of the United States of America, 2009, 106, 826-831.	7.1	587
33	Phosphorus control is critical to mitigating eutrophication. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11039-11040.	7.1	542
34	Whole-lake carbon-13 additions reveal terrestrial support of aquatic food webs. Nature, 2004, 427, 240-243.	27.8	497
35	Social norms as solutions. Science, 2016, 354, 42-43.	12.6	476
36	TROPHIC CASCADES, NUTRIENTS, AND LAKE PRODUCTIVITY: WHOLE-LAKE EXPERIMENTS. Ecological Monographs, 2001, 71, 163-186.	5.4	448

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37	Decision-making under great uncertainty: environmental management in an era of global change. Trends in Ecology and Evolution, 2011, 26, 398-404.	8.7	446
38	ECOLOGY: Enhanced: Millennium Ecosystem Assessment: Research Needs. Science, 2006, 314, 257-258.	12.6	442
39	ESTIMATING COMMUNITY STABILITY AND ECOLOGICAL INTERACTIONS FROM TIME-SERIES DATA. Ecological Monographs, 2003, 73, 301-330.	5.4	435
40	Reconnecting to the Biosphere. Ambio, 2011, 40, 719-38.	5.5	420
41	Bright spots: seeds of a good Anthropocene. Frontiers in Ecology and the Environment, 2016, 14, 441-448.	4.0	414
42	Persistence of net heterotrophy in lakes during nutrient addition and food web manipulations. Limnology and Oceanography, 2000, 45, 1718-1730.	3.1	400
43	Consumer Control of Lake Productivity. BioScience, 1988, 38, 764-769.	4.9	381
44	Invasive species triggers a massive loss of ecosystem services through a trophic cascade. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4081-4085.	7.1	361
45	Resilience indicators: prospects and limitations for early warnings of regime shifts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130263.	4.0	349
46	ECOSYSTEM SUBSIDIES: TERRESTRIAL SUPPORT OF AQUATIC FOOD WEBS FROM13C ADDITION TO CONTRASTING LAKES. Ecology, 2005, 86, 2737-2750.	3.2	341
47	Generic Indicators of Ecological Resilience: Inferring the Chance of a Critical Transition. Annual Review of Ecology, Evolution, and Systematics, 2015, 46, 145-167.	8.3	339
48	Lake metabolism: Relationships with dissolved organic carbon and phosphorus. Limnology and Oceanography, 2003, 48, 1112-1119.	3.1	335
49	Reconsideration of the planetary boundary for phosphorus. Environmental Research Letters, 2011, 6, 014009.	5.2	307
50	Differential support of lake food webs by three types of terrestrial organic carbon. Ecology Letters, 2006, 9, 558-568.	6.4	305
51	Zooplanktonâ€mediated transitions between N―and Pâ€ŀimited algal growth1. Limnology and Oceanography, 1988, 33, 1-14.	3.1	294
52	Strong evidence for terrestrial support of zooplankton in small lakes based on stable isotopes of carbon, nitrogen, and hydrogen. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1975-1980.	7.1	291
53	Early Warning Signals of Ecological Transitions: Methods for Spatial Patterns. PLoS ONE, 2014, 9, e92097.	2.5	286
54	Surrogates for Resilience of Social–Ecological Systems. Ecosystems, 2005, 8, 941-944.	3.4	281

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55	Trading carbon for food: Global comparison of carbon stocks vs. crop yields on agricultural land. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19645-19648.	7.1	276
56	Our future in the Anthropocene biosphere. Ambio, 2021, 50, 834-869.	5.5	275
57	Advancing sustainability through mainstreaming a social–ecological systems perspective. Current Opinion in Environmental Sustainability, 2015, 14, 144-149.	6.3	274
58	General Resilience to Cope with Extreme Events. Sustainability, 2012, 4, 3248-3259.	3.2	268
59	Impact of dissolved organic carbon, phosphorus, and grazing on phytoplankton biomass and production in experimental lakes. Limnology and Oceanography, 1998, 43, 73-80.	3.1	266
60	Scenarios for Ecosystem Services: An Overview. Ecology and Society, 2006, 11, .	2.3	245
61	Multiscale regime shifts and planetary boundaries. Trends in Ecology and Evolution, 2013, 28, 389-395.	8.7	243
62	Phosphorus Loads to Surface Waters: A Simple Model to Account for Spatial Pattern of Land Use. , 1996, 6, 865-878.		231
63	WHOLE-LAKE FERTILIZATION EFFECTS ON DISTRIBUTION OF PRIMARY PRODUCTION BETWEEN BENTHIC AND PELAGIC HABITATS. Ecology, 2001, 82, 1065-1077.	3.2	219
64	Human impacts on planetary boundaries amplified by Earth system interactions. Nature Sustainability, 2020, 3, 119-128.	23.7	217
65	Whole″ake experiments: The annual record of fossil pigments and zooplankton. Limnology and Oceanography, 1989, 34, 700-717.	3.1	203
66	Anatomy and resilience of the global production ecosystem. Nature, 2019, 575, 98-108.	27.8	203
67	Creating a safe operating space for iconic ecosystems. Science, 2015, 347, 1317-1319.	12.6	202
68	Pathways of organic carbon utilization in small lakes: Results from a wholeâ€ i ake ¹³ C addition and coupled model. Limnology and Oceanography, 2002, 47, 1664-1675.	3.1	197
69	ECOLOGICAL FUTURES: BUILDING AN ECOLOGY OF THE LONG NOW1. Ecology, 2002, 83, 2069-2083.	3.2	195
70	Transnational corporations and the challenge of biosphere stewardship. Nature Ecology and Evolution, 2019, 3, 1396-1403.	7.8	194
71	Ecology for transformation. Trends in Ecology and Evolution, 2006, 21, 309-315.	8.7	185
72	Abrupt Change in Ecological Systems: Inference and Diagnosis. Trends in Ecology and Evolution, 2018, 33, 513-526.	8.7	178

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73	Food Web Structure and Phosphorus Cycling in Lakes. Transactions of the American Fisheries Society, 1993, 122, 756-772.	1.4	171
74	Governing the recreational dimension of global fisheries. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5209-5213.	7.1	171
75	Large-Scale Perturbations: Opportunities for Innovation. Ecology, 1990, 71, 2038-2043.	3.2	169
76	Climate change, ecosystems and abrupt change: science priorities. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190105.	4.0	169
77	Drivers, "Slow" Variables, "Fast" Variables, Shocks, and Resilience. Ecology and Society, 2012, 17, .	2.3	164
78	Spatial Complexity, Resilience, and Policy Diversity: Fishing on Lake-rich Landscapes. Ecology and Society, 2004, 9, .	2.3	163
79	Leading indicators of trophic cascades. Ecology Letters, 2008, 11, 128-138.	6.4	157
80	Controls of δ ¹³ Câ€DIC in lakes: Geochemistry, lake metabolism, and morphometry. Limnology and Oceanography, 2004, 49, 1160-1172.	3.1	152
81	Integrating aquatic and terrestrial components to construct a complete carbon budget for a north temperate lake district. Global Change Biology, 2011, 17, 1193-1211.	9.5	151
82	A model of carbon evasion and sedimentation in temperate lakes. Global Change Biology, 2004, 10, 1285-1298.	9.5	149
83	EUTROPHICATION DUE TO PHOSPHORUS RECYCLING IN RELATION TO LAKE MORPHOMETRY, TEMPERATURE, AND MACROPHYTES. Ecology, 2005, 86, 210-219.	3.2	149
84	Hares and Tortoises: Interactions of Fast and Slow Variablesin Ecosystems. Ecosystems, 2000, 3, 495-497.	3.4	136
85	Assessing pelagic and benthic metabolism using free water measurements. Limnology and Oceanography: Methods, 2007, 5, 145-155.	2.0	135
86	Phosphorus loading reductions needed to control blue-green algal blooms in Lake Mendota. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 1169-1178.	1.4	133
87	MICROCOSM EXPERIMENTS HAVE LIMITED RELEVANCE FOR COMMUNITY AND ECOSYSTEM ECOLOGY: REPLY. Ecology, 1999, 80, 1085-1088.	3.2	129
88	Understanding Regional Change: A Comparison of Two Lake Districts. BioScience, 2007, 57, 323-335.	4.9	129
89	Does terrestrial organic carbon subsidize the planktonic food web in a clearâ€water lake?. Limnology and Oceanography, 2007, 52, 2177-2189.	3.1	128
90	Role of economics in analyzing the environment and sustainable development. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5233-5238.	7.1	128

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91	POPULATION, COMMUNITY, AND ECOSYSTEM VARIATES AS ECOLOGICAL INDICATORS: PHYTOPLANKTON RESPONSES TO WHOLE-LAKE ENRICHMENT. , 1998, 8, 508-530.		127
92	Chlorophyll Variability, Nutrient Input, and Grazing: Evidence from Whole- Lake Experiments. Ecology, 1996, 77, 725-735.	3.2	125
93	Biological Control of Eutrophication in Lakes. Environmental Science & Technology, 1995, 29, 784-786.	10.0	123
94	Rates and components of carbon turnover in fish muscle: insights from bioenergetics models and a whole-lake ¹³ C addition. Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 387-399.	1.4	122
95	Fish Community and Food Web Responses to a Whole-lake Removal of Coarse Woody Habitat. Fisheries, 2006, 31, 321-330.	0.8	120
96	ECONOMIC VALUATION OF FRESHWATER ECOSYSTEM SERVICES IN THE UNITED STATES: 1971–1997. , 1999, 772-783.	, 9,	118
97	Impacts of Daily Bag Limit Reductions on Angler Effort in Wisconsin Walleye Lakes. North American Journal of Fisheries Management, 2003, 23, 1283-1293.	1.0	118
98	Limnetic Herbivory: Effects on Phytoplankton Populations and Primary Production. Ecology, 1986, 67, 1351-1360.	3.2	114
99	UNCERTAINTY AND THE MANAGEMENT OF MULTISTATE ECOSYSTEMS: AN APPARENTLY RATIONAL ROUTE TO COLLAPSE. Ecology, 2003, 84, 1403-1411.	3.2	113
100	Biotic feedbacks in Lake phosphorus cycles. Trends in Ecology and Evolution, 1992, 7, 332-336.	8.7	112
101	The Rise and Fall of a Dominant Planktivore: Direct and Indirect Effects on Zooplankton. Ecology, 1993, 74, 303-319.	3.2	107
102	A Phosphorus Budget for the Lake Mendota Watershed. Ecosystems, 1999, 2, 69-75.	3.4	107
103	Small lakes dominate a random sample of regional lake characteristics. Freshwater Biology, 2007, 52, 814-822.	2.4	107
104	Evaluation of metabolism models for freeâ€water dissolved oxygen methods in lakes. Limnology and Oceanography: Methods, 2008, 6, 454-465.	2.0	104
105	Allowing variance may enlarge the safe operating space for exploited ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14384-14389.	7.1	104
106	Biodiversity and ecosystem services require IPBES to take novel approach to scenarios. Sustainability Science, 2017, 12, 177-181.	4.9	104
107	Panaceas and diversification of environmental policy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15206-15211.	7.1	102
108	LAGOS-NE: a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of US lakes. GigaScience, 2017, 6, 1-22.	6.4	102

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109	SYNCHRONOUS BEHAVIOR OF TEMPERATURE, CALCIUM, AND CHLOROPHYLL IN LAKES OF NORTHERN WISCONSIN. Ecology, 2000, 81, 815-825.	3.2	101
110	Pelagic species size distributions in lakes: Are they discontinuous?. Limnology and Oceanography, 2001, 46, 1021-1033.	3.1	96
111	TROPHIC CASCADES AND COMPENSATION: DIFFERENTIAL RESPONSES OF MICROZOOPLANKTON IN WHOLE-LAKE EXPERIMENTS. Ecology, 1998, 79, 138-152.	3.2	95
112	Defining a Safe Operating Space for inland recreational fisheries. Fish and Fisheries, 2017, 18, 1150-1160.	5.3	95
113	Variance as a Leading Indicator of Regime Shift in Ecosystem Services. Ecology and Society, 2006, 11, .	2.3	93
114	The Need for Large-Scale Experiments to Assess and Predict the Response of Ecosystems to Perturbation. , 1998, , 287-312.		90
115	Program on ecosystem change and society: an international research strategy for integrated social–ecological systems. Current Opinion in Environmental Sustainability, 2012, 4, 134-138.	6.3	89
116	Stocking piscivores to improve fishing and water clarity: a synthesis of the Lake Mendota biomanipulation project. Freshwater Biology, 2002, 47, 2410-2424.	2.4	86
117	Resilience: Accounting for the Noncomputable. Ecology and Society, 2009, 14, .	2.3	86
118	Interacting regime shifts in ecosystems: implication for early warnings. Ecological Monographs, 2010, 80, 353-367.	5.4	85
119	COMMUNITY INTERACTION WEBS AND ZOOPLANKTON RESPONSES TO PLANKTIVORY MANIPULATIONS. Ecology, 1999, 80, 1405-1421.	3.2	84
120	Extreme precipitation and phosphorus loads from two agricultural watersheds. Limnology and Oceanography, 2018, 63, 1221-1233.	3.1	84
121	LAKE DISSOLVED INORGANIC CARBON AND DISSOLVED OXYGEN: CHANGING DRIVERS FROM DAYS TO DECADES. Ecological Monographs, 2006, 76, 343-363.	5.4	82
122	Integrating Landscape Carbon Cycling: Research Needs for Resolving Organic Carbon Budgets of Lakes. Ecosystems, 2015, 18, 363-375.	3.4	81
123	Sources and fates of dissolved organic carbon in lakes as determined by whole-lake carbon isotope additions. Biogeochemistry, 2007, 84, 115-129.	3.5	80
124	Reversal of a cyanobacterial bloom in response to early warnings. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 352-357.	7.1	79
125	Drought-driven lake level decline: effects on coarse woody habitat and fishes. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 315-325.	1.4	78
126	Spatial heterogeneity strongly affects estimates of ecosystem metabolism in two north temperate lakes. Limnology and Oceanography, 2012, 57, 1689-1700.	3.1	77

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127	Ecological and economic analysis of lake eutrophication by nonpoint pollution. Austral Ecology, 1998, 23, 68-79.	1.5	76
128	Understanding relationships among ecosystem services across spatial scales and over time. Environmental Research Letters, 2018, 13, 054020.	5.2	76
129	Food web consequences of long-term invasive crayfish control. Canadian Journal of Fisheries and Aquatic Sciences, 2013, 70, 1109-1122.	1.4	75
130	Can algal photosynthetic inorganic carbon isotope fractionation be predicted in lakes using existing models?. Aquatic Sciences, 2006, 68, 142-153.	1.5	74
131	Terrestrial support of pelagic consumers: patterns and variability revealed by a multilake study. Freshwater Biology, 2013, 58, 2037-2049.	2.4	74
132	Probabilistic Estimate of a Threshold for Eutrophication. Ecosystems, 2008, 11, 601-613.	3.4	73
133	Conditional Heteroscedasticity as a Leading Indicator of Ecological Regime Shifts. American Naturalist, 2011, 178, 442-451.	2.1	70
134	Plausible futures of a social-ecological system: Yahara watershed, Wisconsin, USA. Ecology and Society, 2015, 20, .	2.3	70
135	Learning to Manage and Managing to Learn: Sustaining Freshwater Recreational Fisheries in a Changing Environment. Fisheries, 2015, 40, 56-64.	0.8	70
136	The effects of an exotic fish invasion on the prey communities of two lakes. Journal of Animal Ecology, 2003, 72, 331-342.	2.8	69
137	What is the influence of a reduction of planktivorous and benthivorous fish on water quality in temperate eutrophic lakes? A systematic review. Environmental Evidence, 2015, 4, .	2.7	69
138	Predicting walleye recruitment as a tool for prioritizing management actions. Canadian Journal of Fisheries and Aquatic Sciences, 2015, 72, 661-672.	1.4	66
139	With and without warning: managing ecosystems in a changing world. Frontiers in Ecology and the Environment, 2015, 13, 460-467.	4.0	66
140	Synchronous Behavior of Temperature, Calcium, and Chlorophyll in Lakes of Northern Wisconsin. Ecology, 2000, 81, 815.	3.2	66
141	Production dynamics reveal hidden overharvest of inland recreational fisheries. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24676-24681.	7.1	65
142	Fish predators, food availability and diel vertical migration in Daphnia. Journal of Plankton Research, 1992, 14, 359-377.	1.8	64
143	Climate engineering reconsidered. Nature Climate Change, 2014, 4, 527-529.	18.8	63
144	Extreme daily loads: role in annual phosphorus input to a north temperate lake. Aquatic Sciences, 2015, 77, 71-79.	1.5	63

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145	Progress on Nonpoint Pollution: Barriers & amp; Opportunities. Daedalus, 2015, 144, 35-47.	1.8	63
146	Embodied phosphorus and the global connections of United States agriculture. Environmental Research Letters, 2012, 7, 044024.	5.2	62
147	Summer water clarity responses to phosphorus, Daphnia grazing, and internal mixing in Lake Mendota. Limnology and Oceanography, 1999, 44, 137-146.	3.1	61
148	Mini-Review: Nutrient Cycling in Lakes and Streams: Insights from a Comparative Analysis. Ecosystems, 2000, 3, 131-143.	3.4	60
149	The Influence of Legacy P on Lake Water Quality in a Midwestern Agricultural Watershed. Ecosystems, 2017, 20, 1468-1482.	3.4	60
150	Catchâ€andâ€Release Rates of Sport Fishes in Northern Wisconsin from an Angler Diary Survey. North American Journal of Fisheries Management, 2013, 33, 606-614.	1.0	59
151	Changes in ecosystem resilience detected in automated measures of ecosystem metabolism during a whole-lake manipulation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17398-17403.	7.1	59
152	Water clarity in Lake Mendota since 1900: responses to differing levels of nutrients and herbivory. Canadian Journal of Fisheries and Aquatic Sciences, 1996, 53, 2250-2261.	1.4	57
153	Pelagic responses to changes in dissolved organic carbon following division of a seepage lake. Limnology and Oceanography, 1996, 41, 553-559.	3.1	57
154	Seasonal effects of variable recruitment of a dominant piscivore on pelagic food web structure. Limnology and Oceanography, 1997, 42, 722-729.	3.1	56
155	Transmission of Variance through Lake Food Webs. , 1988, , 119-135.		56
156	Exit time as a measure of ecological resilience. Science, 2021, 372, .	12.6	55
157	Early warning signals precede cyanobacterial blooms in multiple whole″ake experiments. Ecological Monographs, 2018, 88, 188-203.	5.4	54
158	Do dams and levees impact nitrogen cycling? Simulating the effects of flood alterations on floodplain denitrification. Global Change Biology, 2005, 11, 1352-1367.	9.5	51
159	Regime Shift in Fertilizer Commodities Indicates More Turbulence Ahead for Food Security. PLoS ONE, 2014, 9, e93998.	2.5	51
160	Early warnings of regime shifts in spatial dynamics using the discrete Fourier transform. Ecosphere, 2010, 1, 1-15.	2.2	50
161	Early warnings of unknown nonlinear shifts: a nonparametric approach. Ecology, 2011, 92, 2196-2201.	3.2	50
162	Are rapid transitions between invasive and native species caused by alternative stable states, and does it matter?. Ecology, 2013, 94, 2207-2219.	3.2	47

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163	Responses of epilimnetic phytoplankton to experimental nutrient enrichment in three small seepage lakes. Journal of Plankton Research, 1998, 20, 1889-1914.	1.8	46
164	VARIABILITY OF LAKES ON THE LANDSCAPE: ROLES OF PHOSPHORUS, FOOD WEBS, AND DISSOLVED ORGANIC CARBON. Ecology, 2003, 84, 1563-1575.	3.2	46
165	Evaluating Alternative Explanations in Ecosystem Experiments. Ecosystems, 1998, 1, 335-344.	3.4	45
166	The topology of non-linear global carbon dynamics: from tipping points to planetary boundaries. Environmental Research Letters, 2013, 8, 044048.	5.2	45
167	Phosphorus Flow in a Watershed-Lake Ecosystem. Ecosystems, 2000, 3, 561-573.	3.4	44
168	Soil Phosphorus Variability: Scale-dependence in an Urbanizing Agricultural Landscape. Landscape Ecology, 2005, 20, 389-400.	4.2	44
169	Water quality implications from three decades of phosphorus loads and trophic dynamics in the Yahara chain of lakes. Inland Waters, 2014, 4, 1-14.	2.2	44
170	From qualitative to quantitative environmental scenarios: Translating storylines into biophysical modeling inputs at the watershed scale. Environmental Modelling and Software, 2016, 85, 80-97.	4.5	44
171	Patterns of Primary Production and Herbivory in 25 North American Lake Ecosystems. , 1991, , 67-96.		44
172	10 Years Later. Advances in Ecological Research, 2015, 53, 1-53.	2.7	43
173	Carbon and water cycling in lake-rich landscapes: Landscape connections, lake hydrology, and biogeochemistry. Journal of Geophysical Research, 2007, 112, .	3.3	42
174	Carbon sources supporting fish growth in a north temperate lake. Aquatic Sciences, 2008, 70, 446-458.	1.5	41
175	Response of plankton to nutrients, planktivory and terrestrial organic matter: a model analysis of whole″ake experiments. Ecology Letters, 2016, 19, 230-239.	6.4	41
176	Temporal, spatial, and taxonomic patterns of crustacean zooplankton variability in unmanipulated northâ€ŧemperate lakes. Limnology and Oceanography, 2002, 47, 613-625.	3.1	40
177	Conditional Heteroskedasticity Forecasts Regime Shift in a Whole-Ecosystem Experiment. Ecosystems, 2012, 15, 741-747.	3.4	40
178	Support of benthic invertebrates by detrital resources and current autochthonous primary production: results from a whole″ake ¹³ C addition. Freshwater Biology, 2008, 53, 42-54.	2.4	38
179	Early Warnings of Regime Shift When the Ecosystem Structure Is Unknown. PLoS ONE, 2012, 7, e45586.	2.5	38
180	Coupled human and natural systems: The evolution and applications of an integrated framework. Ambio, 2021, 50, 1778-1783.	5.5	38

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181	Comparisons of P-Yield, Riparian Buffer Strips, and Land Cover inSix Agricultural Watersheds. Ecosystems, 2002, 5, 568-577.	3.4	37
182	Whole-lake addition of coarse woody habitat: response of fish populations. Aquatic Sciences, 2012, 74, 255-266.	1.5	37
183	Zooplankton provide early warnings of a regime shift in a whole lake manipulation. Limnology and Oceanography, 2013, 58, 525-532.	3.1	37
184	Terrestrial, benthic, and pelagic resource use in lakes: results from a three-isotope Bayesian mixing model. Ecology, 2011, 92, 1115-1125.	3.2	37
185	Uncertainty in Discount Models and Environmental Accounting. Ecology and Society, 2005, 10, .	2.3	36
186	LONG-TERM ENVIRONMENTAL MONITORING: SOME PERSPECTIVES FROM LAKES. , 1998, 8, 269-276.		35
187	Preparing for the future: teaching scenario planning at the graduate level. Frontiers in Ecology and the Environment, 2010, 8, 267-273.	4.0	35
188	Early warnings of regime shifts: evaluation of spatial indicators from a wholeâ€ecosystem experiment. Ecosphere, 2014, 5, 1-13.	2.2	35
189	A new approach for rapid detection of nearby thresholds in ecosystem time series. Oikos, 2014, 123, 290-297.	2.7	35
190	Spatial early warning signals in a lake manipulation. Ecosphere, 2017, 8, e01941.	2.2	35
191	Scenarios reveal pathways to sustain future ecosystem services in an agricultural landscape. Ecological Applications, 2018, 28, 119-134.	3.8	34
192	Lake restoration: capabilities and needs. Hydrobiologia, 1999, 395/396, 19-28.	2.0	33
193	Filling holes in regional carbon budgets: Predicting peat depth in a north temperate lake district. Journal of Geophysical Research, 2010, 115, .	3.3	33
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