

Stephen Carpenter

List of Publications by Year in descending order

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282
papers

91,217
citations

2696

98
h-index

691

261
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284
all docs

284
docs citations

284
times ranked

74411
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Consequences of Land Use. <i>Science</i> , 2005, 309, 570-574.	6.0	9,451
2	Planetary boundaries: Guiding human development on a changing planet. <i>Science</i> , 2015, 347, 1259855.	6.0	7,124
3	Solutions for a cultivated planet. <i>Nature</i> , 2011, 478, 337-342.	13.7	5,821
4	Catastrophic shifts in ecosystems. <i>Nature</i> , 2001, 413, 591-596.	13.7	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. <i>Nature</i> , 2009, 461, 53-59.	13.7	3,286
7	Trophic Downgrading of Planet Earth. <i>Science</i> , 2011, 333, 301-306.	6.0	3,030
8	Complexity of Coupled Human and Natural Systems. <i>Science</i> , 2007, 317, 1513-1516.	6.0	2,705
9	Resilience Thinking: Integrating Resilience, Adaptability and Transformability. <i>Ecology and Society</i> , 2010, 15, .	1.0	2,469
10	Catastrophic regime shifts in ecosystems: linking theory to observation. <i>Trends in Ecology and Evolution</i> , 2003, 18, 648-656.	4.2	2,206
11	Cascading Trophic Interactions and Lake Productivity. <i>BioScience</i> , 1985, 35, 634-639.	2.2	2,183
12	Social-Ecological Resilience to Coastal Disasters. <i>Science</i> , 2005, 309, 1036-1039.	6.0	2,002
13	Science for managing ecosystem services: Beyond the Millennium Ecosystem Assessment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1305-1312.	3.3	1,736
14	Anticipating Critical Transitions. <i>Science</i> , 2012, 338, 344-348.	6.0	1,607
15	Trophic cascades revealed in diverse ecosystems. <i>Trends in Ecology and Evolution</i> , 1999, 14, 483-488.	4.2	1,209
16	Stability and Diversity of Ecosystems. <i>Science</i> , 2007, 317, 58-62.	6.0	1,193
17	Scenario Planning: a Tool for Conservation in an Uncertain World. <i>Conservation Biology</i> , 2003, 17, 358-366.	2.4	1,068
18	Ecological Forecasts: An Emerging Imperative. <i>Science</i> , 2001, 293, 657-660.	6.0	774

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19	Regulation of Lake Primary Productivity by Food Web Structure. <i>Ecology</i> , 1987, 68, 1863-1876.	1.5	762
20	Reducing Phosphorus to Curb Lake Eutrophication is a Success. <i>Environmental Science & Technology</i> , 2016, 50, 8923-8929.	4.6	761
21	Human Impact on Erodable Phosphorus and Eutrophication: A Global Perspective. <i>BioScience</i> , 2001, 51, 227.	2.2	757
22	Ecosystem stewardship: sustainability strategies for a rapidly changing planet. <i>Trends in Ecology and Evolution</i> , 2010, 25, 241-249.	4.2	744
23	Early Warnings of Regime Shifts: A Whole-Ecosystem Experiment. <i>Science</i> , 2011, 332, 1079-1082.	6.0	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. <i>Annual Review of Environment and Resources</i> , 2011, 36, 75-99.	5.6	705
27	Principles for knowledge co-production in sustainability research. <i>Nature Sustainability</i> , 2020, 3, 182-190.	11.5	697
28	Rising variance: a leading indicator of ecological transition. <i>Ecology Letters</i> , 2006, 9, 311-318.	3.0	690
29	Eutrophication of aquatic ecosystems: Bistability and soil phosphorus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10002-10005.	3.3	660
30	Methods for Detecting Early Warnings of Critical Transitions in Time Series Illustrated Using Simulated Ecological Data. <i>PLoS ONE</i> , 2012, 7, e41010.	1.1	638
31	Coupled Human and Natural Systems. <i>Ambio</i> , 2007, 36, 639-649.	2.8	601
32	Turning back from the brink: Detecting an impending regime shift in time to avert it. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 826-831.	3.3	587
33	Phosphorus control is critical to mitigating eutrophication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11039-11040.	3.3	542
34	Whole-lake carbon-13 additions reveal terrestrial support of aquatic food webs. <i>Nature</i> , 2004, 427, 240-243.	13.7	497
35	Social norms as solutions. <i>Science</i> , 2016, 354, 42-43.	6.0	476
36	TROPHIC CASCADES, NUTRIENTS, AND LAKE PRODUCTIVITY: WHOLE-LAKE EXPERIMENTS. <i>Ecological Monographs</i> , 2001, 71, 163-186.	2.4	448

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37	Decision-making under great uncertainty: environmental management in an era of global change. <i>Trends in Ecology and Evolution</i> , 2011, 26, 398-404.	4.2	446
38	ECOLOGY: Enhanced: Millennium Ecosystem Assessment: Research Needs. <i>Science</i> , 2006, 314, 257-258.	6.0	442
39	ESTIMATING COMMUNITY STABILITY AND ECOLOGICAL INTERACTIONS FROM TIME-SERIES DATA. <i>Ecological Monographs</i> , 2003, 73, 301-330.	2.4	435
40	Reconnecting to the Biosphere. <i>Ambio</i> , 2011, 40, 719-38.	2.8	420
41	Bright spots: seeds of a good Anthropocene. <i>Frontiers in Ecology and the Environment</i> , 2016, 14, 441-448.	1.9	414
42	Persistence of net heterotrophy in lakes during nutrient addition and food web manipulations. <i>Limnology and Oceanography</i> , 2000, 45, 1718-1730.	1.6	400
43	Consumer Control of Lake Productivity. <i>BioScience</i> , 1988, 38, 764-769.	2.2	381
44	Invasive species triggers a massive loss of ecosystem services through a trophic cascade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4081-4085.	3.3	361
45	Resilience indicators: prospects and limitations for early warnings of regime shifts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20130263.	1.8	349
46	ECOSYSTEM SUBSIDIES: TERRESTRIAL SUPPORT OF AQUATIC FOOD WEBS FROM ¹³ C ADDITION TO CONTRASTING LAKES. <i>Ecology</i> , 2005, 86, 2737-2750.	1.5	341
47	Generic Indicators of Ecological Resilience: Inferring the Chance of a Critical Transition. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2015, 46, 145-167.	3.8	339
48	Lake metabolism: Relationships with dissolved organic carbon and phosphorus. <i>Limnology and Oceanography</i> , 2003, 48, 1112-1119.	1.6	335
49	Reconsideration of the planetary boundary for phosphorus. <i>Environmental Research Letters</i> , 2011, 6, 014009.	2.2	307
50	Differential support of lake food webs by three types of terrestrial organic carbon. <i>Ecology Letters</i> , 2006, 9, 558-568.	3.0	305
51	Zooplankton-mediated transitions between N- and P-limited algal growth. <i>Limnology and Oceanography</i> , 1988, 33, 1-14.	1.6	294
52	Strong evidence for terrestrial support of zooplankton in small lakes based on stable isotopes of carbon, nitrogen, and hydrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1975-1980.	3.3	291
53	Early Warning Signals of Ecological Transitions: Methods for Spatial Patterns. <i>PLoS ONE</i> , 2014, 9, e92097.	1.1	286
54	Surrogates for Resilience of Social-Ecological Systems. <i>Ecosystems</i> , 2005, 8, 941-944.	1.6	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.	3.3	276
56	Our future in the Anthropocene biosphere. <i>Ambio</i> , 2021, 50, 834-869.	2.8	275
57	Advancing sustainability through mainstreaming a social-ecological systems perspective. <i>Current Opinion in Environmental Sustainability</i> , 2015, 14, 144-149.	3.1	274
58	General Resilience to Cope with Extreme Events. <i>Sustainability</i> , 2012, 4, 3248-3259.	1.6	268
59	Impact of dissolved organic carbon, phosphorus, and grazing on phytoplankton biomass and production in experimental lakes. <i>Limnology and Oceanography</i> , 1998, 43, 73-80.	1.6	266
60	Scenarios for Ecosystem Services: An Overview. <i>Ecology and Society</i> , 2006, 11, .	1.0	245
61	Multiscale regime shifts and planetary boundaries. <i>Trends in Ecology and Evolution</i> , 2013, 28, 389-395.	4.2	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. <i>Ecology</i> , 2001, 82, 1065-1077.	1.5	219
64	Human impacts on planetary boundaries amplified by Earth system interactions. <i>Nature Sustainability</i> , 2020, 3, 119-128.	11.5	217
65	Whole-lake experiments: The annual record of fossil pigments and zooplankton. <i>Limnology and Oceanography</i> , 1989, 34, 700-717.	1.6	203
66	Anatomy and resilience of the global production ecosystem. <i>Nature</i> , 2019, 575, 98-108.	13.7	203
67	Creating a safe operating space for iconic ecosystems. <i>Science</i> , 2015, 347, 1317-1319.	6.0	202
68	Pathways of organic carbon utilization in small lakes: Results from a whole-lake ¹³ C addition and coupled model. <i>Limnology and Oceanography</i> , 2002, 47, 1664-1675.	1.6	197
69	ECOLOGICAL FUTURES: BUILDING AN ECOLOGY OF THE LONG NOW ¹ . <i>Ecology</i> , 2002, 83, 2069-2083.	1.5	195
70	Transnational corporations and the challenge of biosphere stewardship. <i>Nature Ecology and Evolution</i> , 2019, 3, 1396-1403.	3.4	194
71	Ecology for transformation. <i>Trends in Ecology and Evolution</i> , 2006, 21, 309-315.	4.2	185
72	Abrupt Change in Ecological Systems: Inference and Diagnosis. <i>Trends in Ecology and Evolution</i> , 2018, 33, 513-526.	4.2	178

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73	Food Web Structure and Phosphorus Cycling in Lakes. Transactions of the American Fisheries Society, 1993, 122, 756-772.	0.6	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.	3.3	171
75	Large-Scale Perturbations: Opportunities for Innovation. Ecology, 1990, 71, 2038-2043.	1.5	169
76	Climate change, ecosystems and abrupt change: science priorities. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190105.	1.8	169
77	Drivers, "Slow" Variables, "Fast" Variables, Shocks, and Resilience. Ecology and Society, 2012, 17, .	1.0	164
78	Spatial Complexity, Resilience, and Policy Diversity: Fishing on Lake-rich Landscapes. Ecology and Society, 2004, 9, .	1.0	163
79	Leading indicators of trophic cascades. Ecology Letters, 2008, 11, 128-138.	3.0	157
80	Controls of $\delta^{13}\text{C}$ in lakes: Geochemistry, lake metabolism, and morphometry. Limnology and Oceanography, 2004, 49, 1160-1172.	1.6	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.	4.2	151
82	A model of carbon evasion and sedimentation in temperate lakes. Global Change Biology, 2004, 10, 1285-1298.	4.2	149
83	EUTROPHICATION DUE TO PHOSPHORUS RECYCLING IN RELATION TO LAKE MORPHOMETRY, TEMPERATURE, AND MACROPHYTES. Ecology, 2005, 86, 210-219.	1.5	149
84	Hares and Tortoises: Interactions of Fast and Slow Variables in Ecosystems. Ecosystems, 2000, 3, 495-497.	1.6	136
85	Assessing pelagic and benthic metabolism using free water measurements. Limnology and Oceanography: Methods, 2007, 5, 145-155.	1.0	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.	0.7	133
87	MICROCOSM EXPERIMENTS HAVE LIMITED RELEVANCE FOR COMMUNITY AND ECOSYSTEM ECOLOGY: REPLY. Ecology, 1999, 80, 1085-1088.	1.5	129
88	Understanding Regional Change: A Comparison of Two Lake Districts. BioScience, 2007, 57, 323-335.	2.2	129
89	Does terrestrial organic carbon subsidize the planktonic food web in a clear-water lake?. Limnology and Oceanography, 2007, 52, 2177-2189.	1.6	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.	3.3	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.	1.5	125
93	Biological Control of Eutrophication in Lakes. Environmental Science & Technology, 1995, 29, 784-786.	4.6	123
94	Rates and components of carbon turnover in fish muscle: insights from bioenergetics models and a whole-lake ¹³C addition. Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 387-399.	0.7	122
95	Fish Community and Food Web Responses to a Whole-lake Removal of Coarse Woody Habitat. Fisheries, 2006, 31, 321-330.	0.6	120
96	ECONOMIC VALUATION OF FRESHWATER ECOSYSTEM SERVICES IN THE UNITED STATES: 1971â€“1997. , 1999, 9, 772-783.		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.	0.5	118
98	Limnetic Herbivory: Effects on Phytoplankton Populations and Primary Production. Ecology, 1986, 67, 1351-1360.	1.5	114
99	UNCERTAINTY AND THE MANAGEMENT OF MULTISTATE ECOSYSTEMS: AN APPARENTLY RATIONAL ROUTE TO COLLAPSE. Ecology, 2003, 84, 1403-1411.	1.5	113
100	Biotic feedbacks in Lake phosphorus cycles. Trends in Ecology and Evolution, 1992, 7, 332-336.	4.2	112
101	The Rise and Fall of a Dominant Planktivore: Direct and Indirect Effects on Zooplankton. Ecology, 1993, 74, 303-319.	1.5	107
102	A Phosphorus Budget for the Lake Mendota Watershed. Ecosystems, 1999, 2, 69-75.	1.6	107
103	Small lakes dominate a random sample of regional lake characteristics. Freshwater Biology, 2007, 52, 814-822.	1.2	107
104	Evaluation of metabolism models for freeâ€“water dissolved oxygen methods in lakes. Limnology and Oceanography: Methods, 2008, 6, 454-465.	1.0	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.	3.3	104
106	Biodiversity and ecosystem services require IPBES to take novel approach to scenarios. Sustainability Science, 2017, 12, 177-181.	2.5	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.	3.3	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.	3.3	102

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109	SYNCHRONOUS BEHAVIOR OF TEMPERATURE, CALCIUM, AND CHLOROPHYLL IN LAKES OF NORTHERN WISCONSIN. <i>Ecology</i> , 2000, 81, 815-825.	1.5	101
110	Pelagic species size distributions in lakes: Are they discontinuous?. <i>Limnology and Oceanography</i> , 2001, 46, 1021-1033.	1.6	96
111	TROPHIC CASCADES AND COMPENSATION: DIFFERENTIAL RESPONSES OF MICROZOOPLANKTON IN WHOLE-LAKE EXPERIMENTS. <i>Ecology</i> , 1998, 79, 138-152.	1.5	95
112	Defining a Safe Operating Space for inland recreational fisheries. <i>Fish and Fisheries</i> , 2017, 18, 1150-1160.	2.7	95
113	Variance as a Leading Indicator of Regime Shift in Ecosystem Services. <i>Ecology and Society</i> , 2006, 11, .	1.0	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. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 134-138.	3.1	89
116	Stocking piscivores to improve fishing and water clarity: a synthesis of the Lake Mendota biomanipulation project. <i>Freshwater Biology</i> , 2002, 47, 2410-2424.	1.2	86
117	Resilience: Accounting for the Noncomputable. <i>Ecology and Society</i> , 2009, 14, .	1.0	86
118	Interacting regime shifts in ecosystems: implication for early warnings. <i>Ecological Monographs</i> , 2010, 80, 353-367.	2.4	85
119	COMMUNITY INTERACTION WEBS AND ZOOPLANKTON RESPONSES TO PLANKTIVORY MANIPULATIONS. <i>Ecology</i> , 1999, 80, 1405-1421.	1.5	84
120	Extreme precipitation and phosphorus loads from two agricultural watersheds. <i>Limnology and Oceanography</i> , 2018, 63, 1221-1233.	1.6	84
121	LAKE DISSOLVED INORGANIC CARBON AND DISSOLVED OXYGEN: CHANGING DRIVERS FROM DAYS TO DECADES. <i>Ecological Monographs</i> , 2006, 76, 343-363.	2.4	82
122	Integrating Landscape Carbon Cycling: Research Needs for Resolving Organic Carbon Budgets of Lakes. <i>Ecosystems</i> , 2015, 18, 363-375.	1.6	81
123	Sources and fates of dissolved organic carbon in lakes as determined by whole-lake carbon isotope additions. <i>Biogeochemistry</i> , 2007, 84, 115-129.	1.7	80
124	Reversal of a cyanobacterial bloom in response to early warnings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 352-357.	3.3	79
125	Drought-driven lake level decline: effects on coarse woody habitat and fishes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2014, 71, 315-325.	0.7	78
126	Spatial heterogeneity strongly affects estimates of ecosystem metabolism in two north temperate lakes. <i>Limnology and Oceanography</i> , 2012, 57, 1689-1700.	1.6	77

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127	Ecological and economic analysis of lake eutrophication by nonpoint pollution. <i>Austral Ecology</i> , 1998, 23, 68-79.	0.7	76
128	Understanding relationships among ecosystem services across spatial scales and over time. <i>Environmental Research Letters</i> , 2018, 13, 054020.	2.2	76
129	Food web consequences of long-term invasive crayfish control. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 1109-1122.	0.7	75
130	Can algal photosynthetic inorganic carbon isotope fractionation be predicted in lakes using existing models?. <i>Aquatic Sciences</i> , 2006, 68, 142-153.	0.6	74
131	Terrestrial support of pelagic consumers: patterns and variability revealed by a multilake study. <i>Freshwater Biology</i> , 2013, 58, 2037-2049.	1.2	74
132	Probabilistic Estimate of a Threshold for Eutrophication. <i>Ecosystems</i> , 2008, 11, 601-613.	1.6	73
133	Conditional Heteroscedasticity as a Leading Indicator of Ecological Regime Shifts. <i>American Naturalist</i> , 2011, 178, 442-451.	1.0	70
134	Plausible futures of a social-ecological system: Yahara watershed, Wisconsin, USA. <i>Ecology and Society</i> , 2015, 20, .	1.0	70
135	Learning to Manage and Managing to Learn: Sustaining Freshwater Recreational Fisheries in a Changing Environment. <i>Fisheries</i> , 2015, 40, 56-64.	0.6	70
136	The effects of an exotic fish invasion on the prey communities of two lakes. <i>Journal of Animal Ecology</i> , 2003, 72, 331-342.	1.3	69
137	What is the influence of a reduction of planktivorous and benthivorous fish on water quality in temperate eutrophic lakes? A systematic review. <i>Environmental Evidence</i> , 2015, 4, .	1.1	69
138	Predicting walleye recruitment as a tool for prioritizing management actions. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 661-672.	0.7	66
139	With and without warning: managing ecosystems in a changing world. <i>Frontiers in Ecology and the Environment</i> , 2015, 13, 460-467.	1.9	66
140	SYNCHRONOUS BEHAVIOR OF TEMPERATURE, CALCIUM, AND CHLOROPHYLL IN LAKES OF NORTHERN WISCONSIN. , 2000, 81, 815.		66
141	Production dynamics reveal hidden overharvest of inland recreational fisheries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24676-24681.	3.3	65
142	Fish predators, food availability and diel vertical migration in <i>Daphnia</i> . <i>Journal of Plankton Research</i> , 1992, 14, 359-377.	0.8	64
143	Climate engineering reconsidered. <i>Nature Climate Change</i> , 2014, 4, 527-529.	8.1	63
144	Extreme daily loads: role in annual phosphorus input to a north temperate lake. <i>Aquatic Sciences</i> , 2015, 77, 71-79.	0.6	63

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145	Progress on Nonpoint Pollution: Barriers & Opportunities. <i>Daedalus</i> , 2015, 144, 35-47.	0.9	63
146	Embodied phosphorus and the global connections of United States agriculture. <i>Environmental Research Letters</i> , 2012, 7, 044024.	2.2	62
147	Summer water clarity responses to phosphorus, <i>Daphnia</i> grazing, and internal mixing in Lake Mendota. <i>Limnology and Oceanography</i> , 1999, 44, 137-146.	1.6	61
148	Mini-Review: Nutrient Cycling in Lakes and Streams: Insights from a Comparative Analysis. <i>Ecosystems</i> , 2000, 3, 131-143.	1.6	60
149	The Influence of Legacy P on Lake Water Quality in a Midwestern Agricultural Watershed. <i>Ecosystems</i> , 2017, 20, 1468-1482.	1.6	60
150	Catch-and-Release Rates of Sport Fishes in Northern Wisconsin from an Angler Diary Survey. <i>North American Journal of Fisheries Management</i> , 2013, 33, 606-614.	0.5	59
151	Changes in ecosystem resilience detected in automated measures of ecosystem metabolism during a whole-lake manipulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17398-17403.	3.3	59
152	Water clarity in Lake Mendota since 1900: responses to differing levels of nutrients and herbivory. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1996, 53, 2250-2261.	0.7	57
153	Pelagic responses to changes in dissolved organic carbon following division of a seepage lake. <i>Limnology and Oceanography</i> , 1996, 41, 553-559.	1.6	57
154	Seasonal effects of variable recruitment of a dominant piscivore on pelagic food web structure. <i>Limnology and Oceanography</i> , 1997, 42, 722-729.	1.6	56
155	Transmission of Variance through Lake Food Webs. , 1988, , 119-135.		56
156	Exit time as a measure of ecological resilience. <i>Science</i> , 2021, 372, .	6.0	55
157	Early warning signals precede cyanobacterial blooms in multiple whole-lake experiments. <i>Ecological Monographs</i> , 2018, 88, 188-203.	2.4	54
158	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.	4.2	51
159	Regime Shift in Fertilizer Commodities Indicates More Turbulence Ahead for Food Security. <i>PLoS ONE</i> , 2014, 9, e93998.	1.1	51
160	Early warnings of regime shifts in spatial dynamics using the discrete Fourier transform. <i>Ecosphere</i> , 2010, 1, 1-15.	1.0	50
161	Early warnings of unknown nonlinear shifts: a nonparametric approach. <i>Ecology</i> , 2011, 92, 2196-2201.	1.5	50
162	Are rapid transitions between invasive and native species caused by alternative stable states, and does it matter?. <i>Ecology</i> , 2013, 94, 2207-2219.	1.5	47

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163	Responses of epilimnetic phytoplankton to experimental nutrient enrichment in three small seepage lakes. <i>Journal of Plankton Research</i> , 1998, 20, 1889-1914.	0.8	46
164	VARIABILITY OF LAKES ON THE LANDSCAPE: ROLES OF PHOSPHORUS, FOOD WEBS, AND DISSOLVED ORGANIC CARBON. <i>Ecology</i> , 2003, 84, 1563-1575.	1.5	46
165	Evaluating Alternative Explanations in Ecosystem Experiments. <i>Ecosystems</i> , 1998, 1, 335-344.	1.6	45
166	The topology of non-linear global carbon dynamics: from tipping points to planetary boundaries. <i>Environmental Research Letters</i> , 2013, 8, 044048.	2.2	45
167	Phosphorus Flow in a Watershed-Lake Ecosystem. <i>Ecosystems</i> , 2000, 3, 561-573.	1.6	44
168	Soil Phosphorus Variability: Scale-dependence in an Urbanizing Agricultural Landscape. <i>Landscape Ecology</i> , 2005, 20, 389-400.	1.9	44
169	Water quality implications from three decades of phosphorus loads and trophic dynamics in the Yahara chain of lakes. <i>Inland Waters</i> , 2014, 4, 1-14.	1.1	44
170	From qualitative to quantitative environmental scenarios: Translating storylines into biophysical modeling inputs at the watershed scale. <i>Environmental Modelling and Software</i> , 2016, 85, 80-97.	1.9	44
171	Patterns of Primary Production and Herbivory in 25 North American Lake Ecosystems. , 1991, , 67-96.		44
172	10 Years Later. <i>Advances in Ecological Research</i> , 2015, 53, 1-53.	1.4	43
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