

Stephen Carpenter

List of Publications by Citations

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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.

275 papers	69,779 citations	93 h-index	264 g-index
284 ext. papers	79,671 ext. citations	7.9 avg, IF	7.75 L-index

#	Paper	IF	Citations
275	Global consequences of land use. <i>Science</i> , 2005 , 309, 570-4	33.3	7529
274	Catastrophic shifts in ecosystems. <i>Nature</i> , 2001 , 413, 591-6	50.4	4673
273	Sustainability. Planetary boundaries: guiding human development on a changing planet. <i>Science</i> , 2015 , 347, 1259855	33.3	4597
272	Solutions for a cultivated planet. <i>Nature</i> , 2011 , 478, 337-42	50.4	4351
271	NONPOINT POLLUTION OF SURFACE WATERS WITH PHOSPHORUS AND NITROGEN 1998 , 8, 559-568		3425
270	Early-warning signals for critical transitions. <i>Nature</i> , 2009 , 461, 53-9	50.4	2460
269	Trophic downgrading of planet Earth. <i>Science</i> , 2011 , 333, 301-6	33.3	2365
268	Complexity of coupled human and natural systems. <i>Science</i> , 2007 , 317, 1513-6	33.3	2210
267	Cascading Trophic Interactions and Lake Productivity. <i>BioScience</i> , 1985 , 35, 634-639	5.7	1877
266	Resilience Thinking: Integrating Resilience, Adaptability and Transformability. <i>Ecology and Society</i> , 2010 , 15,	4.1	1807
265	Catastrophic regime shifts in ecosystems: linking theory to observation. <i>Trends in Ecology and Evolution</i> , 2003 , 18, 648-656	10.9	1798
264	Social-ecological resilience to coastal disasters. <i>Science</i> , 2005 , 309, 1036-9	33.3	1587
263	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, 1305-12	11.5	1437
262	Anticipating critical transitions. <i>Science</i> , 2012 , 338, 344-8	33.3	1207
261	Trophic cascades revealed in diverse ecosystems. <i>Trends in Ecology and Evolution</i> , 1999 , 14, 483-488	10.9	1029
260	Stability and diversity of ecosystems. <i>Science</i> , 2007 , 317, 58-62	33.3	917
259	Scenario Planning: a Tool for Conservation in an Uncertain World. <i>Conservation Biology</i> , 2003 , 17, 358-366		893

258	Ecological forecasts: an emerging imperative. <i>Science</i> , 2001 , 293, 657-60	33.3	634
257	Human Impact on Erodable Phosphorus and Eutrophication: A Global Perspective. <i>BioScience</i> , 2001 , 51, 227	5.7	610
256	Ecosystem stewardship: sustainability strategies for a rapidly changing planet. <i>Trends in Ecology and Evolution</i> , 2010 , 25, 241-9	10.9	608
255	Early warnings of regime shifts: a whole-ecosystem experiment. <i>Science</i> , 2011 , 332, 1079-82	33.3	588
254	Regulation of Lake Primary Productivity by Food Web Structure. <i>Ecology</i> , 1987 , 68, 1863-1876	4.6	577
253	WATER IN A CHANGING WORLD 2001 , 11, 1027-1045		563
252	MANAGEMENT OF EUTROPHICATION FOR LAKES SUBJECT TO POTENTIALLY IRREVERSIBLE CHANGE 1999 , 9, 751-771		552
251	Rising variance: a leading indicator of ecological transition. <i>Ecology Letters</i> , 2006 , 9, 311-8	10	548
250	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, 10002-5	11.5	531
249	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
248	Coupled human and natural systems. <i>Ambio</i> , 2007 , 36, 639-49	6.5	501
247	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, 826-31	11.5	485
246	Methods for detecting early warnings of critical transitions in time series illustrated using simulated ecological data. <i>PLoS ONE</i> , 2012 , 7, e41010	3.7	476
245	Reducing Phosphorus to Curb Lake Eutrophication is a Success. <i>Environmental Science & Technology</i> , 2016 , 50, 8923-9	10.3	464
244	Whole-lake carbon-13 additions reveal terrestrial support of aquatic food webs. <i>Nature</i> , 2004 , 427, 240-3	30.4	439
243	Phosphorus control is critical to mitigating eutrophication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11039-40	11.5	408
242	Ecology. Millennium ecosystem assessment: research needs. <i>Science</i> , 2006 , 314, 257-8	33.3	368
241	Decision-making under great uncertainty: environmental management in an era of global change. <i>Trends in Ecology and Evolution</i> , 2011 , 26, 398-404	10.9	359

240	ESTIMATING COMMUNITY STABILITY AND ECOLOGICAL INTERACTIONS FROM TIME-SERIES DATA. <i>Ecological Monographs</i> , 2003 , 73, 301-330	9	354
239	TROPHIC CASCADES, NUTRIENTS, AND LAKE PRODUCTIVITY: WHOLE-LAKE EXPERIMENTS. <i>Ecological Monographs</i> , 2001 , 71, 163-186	9	348
238	Consumer Control of Lake Productivity. <i>BioScience</i> , 1988 , 38, 764-769	5.7	332
237	Reconnecting to the biosphere. <i>Ambio</i> , 2011 , 40, 719-38	6.5	322
236	Principles for knowledge co-production in sustainability research. <i>Nature Sustainability</i> , 2020 , 3, 182-190	22.1	317
235	Social norms as solutions. <i>Science</i> , 2016 , 354, 42-43	33.3	314
234	Bright spots: seeds of a good Anthropocene. <i>Frontiers in Ecology and the Environment</i> , 2016 , 14, 441-448	5.5	296
233	Persistence of net heterotrophy in lakes during nutrient addition and food web manipulations. <i>Limnology and Oceanography</i> , 2000 , 45, 1718-1730	4.8	290
232	ECOSYSTEM SUBSIDIES: TERRESTRIAL SUPPORT OF AQUATIC FOOD WEBS FROM ¹³ C ADDITION TO CONTRASTING LAKES. <i>Ecology</i> , 2005 , 86, 2737-2750	4.6	280
231	Differential support of lake food webs by three types of terrestrial organic carbon. <i>Ecology Letters</i> , 2006 , 9, 558-68	10	261
230	Lake metabolism: Relationships with dissolved organic carbon and phosphorus. <i>Limnology and Oceanography</i> , 2003 , 48, 1112-1119	4.8	254
229	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	5.8	249
228	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, 1975-80	11.5	244
227	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, 4081-5	11.5	238
226	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	4.8	231
225	Reconsideration of the planetary boundary for phosphorus. <i>Environmental Research Letters</i> , 2011 , 6, 014009	6.2	230
224	Trading carbon for food: global comparison of carbon stocks vs. crop yields on agricultural land. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19645-8	11.5	228
223	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	13.5	221

222	Advancing sustainability through mainstreaming a social-ecological systems perspective. <i>Current Opinion in Environmental Sustainability</i> , 2015 , 14, 144-149	7.2	211
221	Early warning signals of ecological transitions: methods for spatial patterns. <i>PLoS ONE</i> , 2014 , 9, e92097	3.7	211
220	Zooplankton-mediated transitions between N- and P-limited algal growth1. <i>Limnology and Oceanography</i> , 1988 , 33, 1-14	4.8	209
219	General Resilience to Cope with Extreme Events. <i>Sustainability</i> , 2012 , 4, 3248-3259	3.6	203
218	Scenarios for Ecosystem Services: An Overview. <i>Ecology and Society</i> , 2006 , 11,	4.1	201
217	Surrogates for Resilience of Social-Ecological Systems. <i>Ecosystems</i> , 2005 , 8, 941-944	3.9	198
216	Multiscale regime shifts and planetary boundaries. <i>Trends in Ecology and Evolution</i> , 2013 , 28, 389-95	10.9	194
215	WHOLE-LAKE FERTILIZATION EFFECTS ON DISTRIBUTION OF PRIMARY PRODUCTION BETWEEN BENTHIC AND PELAGIC HABITATS. <i>Ecology</i> , 2001 , 82, 1065-1077	4.6	186
214	Phosphorus Loads to Surface Waters: A Simple Model to Account for Spatial Pattern of Land Use 1996 , 6, 865-878		179
213	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	4.8	173
212	Ecology for transformation. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 309-15	10.9	165
211	Climate and conservation. Creating a safe operating space for iconic ecosystems. <i>Science</i> , 2015 , 347, 1317-9	33.3	155
210	ECOLOGICAL FUTURES: BUILDING AN ECOLOGY OF THE LONG NOW. <i>Ecology</i> , 2002 , 83, 2069-2083	4.6	155
209	Whole-lake experiments: The annual record of fossil pigments and zooplankton. <i>Limnology and Oceanography</i> , 1989 , 34, 700-717	4.8	152
208	Food Web Structure and Phosphorus Cycling in Lakes. <i>Transactions of the American Fisheries Society</i> , 1993 , 122, 756-772	1.7	150
207	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
206	Spatial Complexity, Resilience, and Policy Diversity: Fishing on Lake-rich Landscapes. <i>Ecology and Society</i> , 2004 , 9,	4.1	124
205	Large-Scale Perturbations: Opportunities for Innovation. <i>Ecology</i> , 1990 , 71, 2038-2043	4.6	123

204	Leading indicators of trophic cascades. <i>Ecology Letters</i> , 2008 , 11, 128-38	10	120
203	Drivers, "Slow" Variables, "Fast" Variables, Shocks, and Resilience. <i>Ecology and Society</i> , 2012 , 17,	4.1	119
202	EUTROPHICATION DUE TO PHOSPHORUS RECYCLING IN RELATION TO LAKE MORPHOMETRY, TEMPERATURE, AND MACROPHYTES. <i>Ecology</i> , 2005 , 86, 210-219	4.6	119
201	A model of carbon evasion and sedimentation in temperate lakes. <i>Global Change Biology</i> , 2004 , 10, 1285-1298	11.4	118
200	Transnational corporations and the challenge of biosphere stewardship. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1396-1403	12.3	116
199	Abrupt Change in Ecological Systems: Inference and Diagnosis. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 513-526	10.9	113
198	Controls of $\delta^{13}\text{C}$ -DIC in lakes: Geochemistry, lake metabolism, and morphometry. <i>Limnology and Oceanography</i> , 2004 , 49, 1160-1172	4.8	112
197	Does terrestrial organic carbon subsidize the planktonic food web in a clear-water lake?. <i>Limnology and Oceanography</i> , 2007 , 52, 2177-2189	4.8	109
196	Human impacts on planetary boundaries amplified by Earth system interactions. <i>Nature Sustainability</i> , 2020 , 3, 119-128	22.1	108
195	Phosphorus loading reductions needed to control blue-green algal blooms in Lake Mendota. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1998 , 55, 1169-1178	2.4	107
194	Rates and components of carbon turnover in fish muscle: insights from bioenergetics models and a whole-lake ^{13}C addition. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011 , 68, 387-399	2.4	106
193	Assessing pelagic and benthic metabolism using free water measurements. <i>Limnology and Oceanography: Methods</i> , 2007 , 5, 145-155	2.6	104
192	Anatomy and resilience of the global production ecosystem. <i>Nature</i> , 2019 , 575, 98-108	50.4	104
191	Understanding Regional Change: A Comparison of Two Lake Districts. <i>BioScience</i> , 2007 , 57, 323-335	5.7	103
190	Hares and Tortoises: Interactions of Fast and Slow Variables in Ecosystems. <i>Ecosystems</i> , 2000 , 3, 495-497	3.9	103
189	POPULATION, COMMUNITY, AND ECOSYSTEM VARIATES AS ECOLOGICAL INDICATORS: PHYTOPLANKTON RESPONSES TO WHOLE-LAKE ENRICHMENT 1998 , 8, 508-530		103
188	Biological Control of Eutrophication in Lakes. <i>Environmental Science & Technology</i> , 1995 , 29, 784-786	60.3	103
187	Biotic feedbacks in Lake phosphorus cycles. <i>Trends in Ecology and Evolution</i> , 1992 , 7, 332-6	10.9	99

186	Chlorophyll Variability, Nutrient Input, and Grazing: Evidence from Whole- Lake Experiments. <i>Ecology</i> , 1996 , 77, 725-735	4.6	98
185	Impacts of Daily Bag Limit Reductions on Angler Effort in Wisconsin Walleye Lakes. <i>North American Journal of Fisheries Management</i> , 2003 , 23, 1283-1293	1.1	96
184	UNCERTAINTY AND THE MANAGEMENT OF MULTISTATE ECOSYSTEMS: AN APPARENTLY RATIONAL ROUTE TO COLLAPSE. <i>Ecology</i> , 2003 , 84, 1403-1411	4.6	96
183	Fish Community and Food Web Responses to a Whole-lake Removal of Coarse Woody Habitat. <i>Fisheries</i> , 2006 , 31, 321-330	1.1	94
182	SYNCHRONOUS BEHAVIOR OF TEMPERATURE, CALCIUM, AND CHLOROPHYLL IN LAKES OF NORTHERN WISCONSIN. <i>Ecology</i> , 2000 , 81, 815-825	4.6	84
181	A Phosphorus Budget for the Lake Mendota Watershed. <i>Ecosystems</i> , 1999 , 2, 69-75	3.9	84
180	Limnetic Herbivory: Effects on Phytoplankton Populations and Primary Production. <i>Ecology</i> , 1986 , 67, 1351-1360	4.6	84
179	Biodiversity and ecosystem services require IPBES to take novel approach to scenarios. <i>Sustainability Science</i> , 2017 , 12, 177-181	6.4	83
178	Small lakes dominate a random sample of regional lake characteristics. <i>Freshwater Biology</i> , 2007 , 52, 814-822	3.1	83
177	Allowing variance may enlarge the safe operating space for exploited ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14384-9	11.5	82
176	Climate change, ecosystems and abrupt change: science priorities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190105	5.8	82
175	Panaceas and diversification of environmental policy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15206-11	11.5	81
174	Opinion: Governing the recreational dimension of global fisheries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5209-5213	11.5	79
173	Evaluation of metabolism models for free-water dissolved oxygen methods in lakes. <i>Limnology and Oceanography: Methods</i> , 2008 , 6, 454-465	2.6	79
172	The Rise and Fall of a Dominant Planktivore: Direct and Indirect Effects on Zooplankton. <i>Ecology</i> , 1993 , 74, 303-319	4.6	78
171	Our future in the Anthropocene biosphere. <i>Ambio</i> , 2021 , 50, 834-869	6.5	78
170	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
169	Variance as a Leading Indicator of Regime Shift in Ecosystem Services. <i>Ecology and Society</i> , 2006 , 11,	4.1	75

168	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	7.2	74
167	Stocking piscivores to improve fishing and water clarity: a synthesis of the Lake Mendota biomanipulation project. <i>Freshwater Biology</i> , 2002 , 47, 2410-2424	3.1	73
166	Role of economics in analyzing the environment and sustainable development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5233-5238	11.5	72
165	Interacting regime shifts in ecosystems: implication for early warnings. <i>Ecological Monographs</i> , 2010 , 80, 353-367	9	72
164	Pelagic species size distributions in lakes: Are they discontinuous?. <i>Limnology and Oceanography</i> , 2001 , 46, 1021-1033	4.8	71
163	COMMUNITY INTERACTION WEBS AND ZOOPLANKTON RESPONSES TO PLANKTIVORY MANIPULATIONS. <i>Ecology</i> , 1999 , 80, 1405-1421	4.6	70
162	The Need for Large-Scale Experiments to Assess and Predict the Response of Ecosystems to Perturbation 1998 , 287-312		70
161	Sources and fates of dissolved organic carbon in lakes as determined by whole-lake carbon isotope additions. <i>Biogeochemistry</i> , 2007 , 84, 115-129	3.8	69
160	Can algal photosynthetic inorganic carbon isotope fractionation be predicted in lakes using existing models?. <i>Aquatic Sciences</i> , 2006 , 68, 142-153	2.5	67
159	Resilience: Accounting for the Noncomputable. <i>Ecology and Society</i> , 2009 , 14,	4.1	65
158	The effects of an exotic fish invasion on the prey communities of two lakes. <i>Journal of Animal Ecology</i> , 2003 , 72, 331-342	4.7	63
157	Integrating Landscape Carbon Cycling: Research Needs for Resolving Organic Carbon Budgets of Lakes. <i>Ecosystems</i> , 2015 , 18, 363-375	3.9	62
156	Spatial heterogeneity strongly affects estimates of ecosystem metabolism in two north temperate lakes. <i>Limnology and Oceanography</i> , 2012 , 57, 1689-1700	4.8	61
155	TROPHIC CASCADES AND COMPENSATION: DIFFERENTIAL RESPONSES OF MICROZOOPLANKTON IN WHOLE-LAKE EXPERIMENTS. <i>Ecology</i> , 1998 , 79, 138-152	4.6	60
154	Conditional heteroscedasticity as a leading indicator of ecological regime shifts. <i>American Naturalist</i> , 2011 , 178, 442-51	3.7	59
153	Terrestrial support of pelagic consumers: patterns and variability revealed by a multilake study. <i>Freshwater Biology</i> , 2013 , 58, 2037-2049	3.1	58
152	Fish predators, food availability and diel vertical migration in Daphnia. <i>Journal of Plankton Research</i> , 1992 , 14, 359-377	2.2	58
151	Probabilistic Estimate of a Threshold for Eutrophication. <i>Ecosystems</i> , 2008 , 11, 601-613	3.9	57

150	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	11.5	56
149	Plausible futures of a social-ecological system: Yahara watershed, Wisconsin, USA. <i>Ecology and Society</i> , 2015 , 20,	4.1	56
148	ECONOMIC VALUATION OF FRESHWATER ECOSYSTEM SERVICES IN THE UNITED STATES: 1971-1997 1999 , 9, 772-783		56
147	Defining a Safe Operating Space for inland recreational fisheries. <i>Fish and Fisheries</i> , 2017 , 18, 1150-1160	6	55
146	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	2.4	55
145	LAKE DISSOLVED INORGANIC CARBON AND DISSOLVED OXYGEN: CHANGING DRIVERS FROM DAYS TO DECADES. <i>Ecological Monographs</i> , 2006 , 76, 343-363	9	54
144	Food web consequences of long-term invasive crayfish control. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013 , 70, 1109-1122	2.4	53
143	Ecological and economic analysis of lake eutrophication by nonpoint pollution. <i>Austral Ecology</i> , 1998 , 23, 68-79	1.5	53
142	Learning to Manage and Managing to Learn: Sustaining Freshwater Recreational Fisheries in a Changing Environment. <i>Fisheries</i> , 2015 , 40, 56-64	1.1	51
141	Mini-Review: Nutrient Cycling in Lakes and Streams: Insights from a Comparative Analysis. <i>Ecosystems</i> , 2000 , 3, 131-143	3.9	50
140	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	2.4	50
139	Understanding relationships among ecosystem services across spatial scales and over time. <i>Environmental Research Letters</i> , 2018 , 13, 054020	6.2	49
138	Extreme precipitation and phosphorus loads from two agricultural watersheds. <i>Limnology and Oceanography</i> , 2018 , 63, 1221-1233	4.8	49
137	Extreme daily loads: role in annual phosphorus input to a north temperate lake. <i>Aquatic Sciences</i> , 2015 , 77, 71-79	2.5	48
136	Predicting walleye recruitment as a tool for prioritizing management actions. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015 , 72, 661-672	2.4	48
135	With and without warning: managing ecosystems in a changing world. <i>Frontiers in Ecology and the Environment</i> , 2015 , 13, 460-467	5.5	48
134	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, 17398-403	11.5	48
133	Embodied phosphorus and the global connections of United States agriculture. <i>Environmental Research Letters</i> , 2012 , 7, 044024	6.2	48

132	Progress on Nonpoint Pollution: Barriers & Opportunities. <i>Daedalus</i> , 2015 , 144, 35-47	2	47
131	The Influence of Legacy P on Lake Water Quality in a Midwestern Agricultural Watershed. <i>Ecosystems</i> , 2017 , 20, 1468-1482	3.9	45
130	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,	3.3	45
129	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
128	Summer water clarity responses to phosphorus, Daphnia grazing, and internal mixing in Lake Mendota. <i>Limnology and Oceanography</i> , 1999 , 44, 137-146	4.8	45
127	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	1.1	44
126	MICROCOSM EXPERIMENTS HAVE LIMITED RELEVANCE FOR COMMUNITY AND ECOSYSTEM ECOLOGY: REPLY. <i>Ecology</i> , 1999 , 80, 1085-1088	4.6	44
125	Early warnings of regime shifts in spatial dynamics using the discrete Fourier transform. <i>Ecosphere</i> , 2010 , 1, art10	3.1	42
124	Regime shift in fertilizer commodities indicates more turbulence ahead for food security. <i>PLoS ONE</i> , 2014 , 9, e93998	3.7	40
123	Early warnings of unknown nonlinear shifts: a nonparametric approach. <i>Ecology</i> , 2011 , 92, 2196-201	4.6	40
122	Soil Phosphorus Variability: Scale-dependence in an Urbanizing Agricultural Landscape. <i>Landscape Ecology</i> , 2005 , 20, 389-400	4.3	40
121	Carbon sources supporting fish growth in a north temperate lake. <i>Aquatic Sciences</i> , 2008 , 70, 446-458	2.5	39
120	Phosphorus Flow in a Watershed-Lake Ecosystem. <i>Ecosystems</i> , 2000 , 3, 561-573	3.9	39
119	Responses of epilimnetic phytoplankton to experimental nutrient enrichment in three small seepage lakes. <i>Journal of Plankton Research</i> , 1998 , 20, 1889-1914	2.2	39
118	Conditional Heteroskedasticity Forecasts Regime Shift in a Whole-Ecosystem Experiment. <i>Ecosystems</i> , 2012 , 15, 741-747	3.9	38
117	VARIABILITY OF LAKES ON THE LANDSCAPE: ROLES OF PHOSPHORUS, FOOD WEBS, AND DISSOLVED ORGANIC CARBON. <i>Ecology</i> , 2003 , 84, 1563-1575	4.6	38
116	Temporal, spatial, and taxonomic patterns of crustacean zooplankton variability in unmanipulated north-temperate lakes. <i>Limnology and Oceanography</i> , 2002 , 47, 613-625	4.8	37
115	Pelagic responses to changes in dissolved organic carbon following division of a seepage lake. <i>Limnology and Oceanography</i> , 1996 , 41, 553-559	4.8	37

114	The topology of non-linear global carbon dynamics: from tipping points to planetary boundaries. <i>Environmental Research Letters</i> , 2013 , 8, 044048	6.2	36
113	Seasonal effects of variable recruitment of a dominant piscivore on pelagic food web structure. <i>Limnology and Oceanography</i> , 1997 , 42, 722-729	4.8	36
112	Evaluating Alternative Explanations in Ecosystem Experiments. <i>Ecosystems</i> , 1998 , 1, 335-344	3.9	35
111	Early warnings of regime shift when the ecosystem structure is unknown. <i>PLoS ONE</i> , 2012 , 7, e45586	3.7	34
110	Terrestrial, benthic, and pelagic resource use in lakes: results from a three-isotope Bayesian mixing model 2011 , 92, 1115		34
109	Early warning signals precede cyanobacterial blooms in multiple whole-lake experiments. <i>Ecological Monographs</i> , 2018 , 88, 188-203	9	34
108	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	5.2	33
107	Zooplankton provide early warnings of a regime shift in a whole lake manipulation. <i>Limnology and Oceanography</i> , 2013 , 58, 525-532	4.8	33
106	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	2.4	33
105	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	11.5	33
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