Marten Scheffer

List of Publications by Year
in descending order

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231 papers	67,245 citations	2538 96 h-index	1216 227 g-index
234 all docs	234 docs citations	234 times ranked	52800 citing authors

#	Article	IF	Citations
1	A safe operating space for humanity. Nature, 2009, 461, 472-475.	13.7	8,638
2	Catastrophic shifts in ecosystems. Nature, 2001, 413, 591-596.	13.7	5,656
3	Planetary Boundaries: Exploring the Safe Operating Space for Humanity. Ecology and Society, 2009, 14, .	1.0	3,867
4	Early-warning signals for critical transitions. Nature, 2009, 461, 53-59.	13.7	3,286
5	Trophic Downgrading of Planet Earth. Science, 2011, 333, 301-306.	6.0	3,030
6	Regime Shifts, Resilience, and Biodiversity in Ecosystem Management. Annual Review of Ecology, Evolution, and Systematics, 2004, 35, 557-581.	3.8	2,674
7	Resilience Thinking: Integrating Resilience, Adaptability and Transformability. Ecology and Society, 2010, 15, .	1.0	2,469
8	Catastrophic regime shifts in ecosystems: linking theory to observation. Trends in Ecology and Evolution, 2003, 18, 648-656.	4.2	2,206
9	Trajectories of the Earth System in the Anthropocene. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8252-8259.	3.3	1,832
10	Anticipating Critical Transitions. Science, 2012, 338, 344-348.	6.0	1,607
11	Coral reefs in the Anthropocene. Nature, 2017, 546, 82-90.	13.7	1,329
12	The Anthropocene: From Global Change to Planetary Stewardship. Ambio, 2011, 40, 739-761.	2.8	1,175
13	Global Resilience of Tropical Forest and Savanna to Critical Transitions. Science, 2011, 334, 232-235.	6.0	954
14	THE INTERPLAY OF FACILITATION AND COMPETITION IN PLANT COMMUNITIES. Ecology, 1997, 78, 1966-1975.	1.5	835
15	Slowing down as an early warning signal for abrupt climate change. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14308-14312.	3.3	724
16	Warmer climates boost cyanobacterial dominance in shallow lakes. Global Change Biology, 2012, 18, 118-126.	4.2	663
17	Methods for Detecting Early Warnings of Critical Transitions in Time Series Illustrated Using Simulated Ecological Data. PLoS ONE, 2012, 7, e41010.	1.1	638
18	Ups and Downs in the Ocean: Effects of Biofouling on Vertical Transport of Microplastics. Environmental Science & Technology, 2017, 51, 7963-7971.	4.6	566

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19	Allied attack: climate change and eutrophication. Inland Waters, 2011, 1, 101-105.	1.1	548
20	Soil microbes drive the classic plant diversityâ€“productivity pattern. Ecology, 2011, 92, 296-303.	1.5	517
21	Critical slowing down as early warning for the onset and termination of depression. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 87-92.	3.3	504
22	Shallow lakes theory revisited: various alternative regimes driven by climate, nutrients, depth and lake size. Hydrobiologia, 2007, 584, 455-466.	1.0	495
23	Self-organized similarity, the evolutionary emergence of groups of similar species. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6230-6235.	3.3	488
24	Social norms as solutions. Science, 2016, 354, 42-43.	6.0	476
25	Navigating transformations in governance of Chilean marine coastal resources. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16794-16799.	3.3	471
26	Does aquaculture add resilience to the global food system?. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13257-13263.	3.3	468
27	Flickering gives early warning signals of a critical transition to a eutrophic lake state. Nature, 2012, 492, 419-422.	13.7	440
28	ON THE DOMINANCE OF FILAMENTOUS CYANOBACTERIA IN SHALLOW, TURBID LAKES. Ecology, 1997, 78, 272-282.	1.5	414
29	El NiÃ±o effects on the dynamics of terrestrial ecosystems. Trends in Ecology and Evolution, 2001, 16, 89-94.	4.2	409
30	Slow Recovery from Perturbations as a Generic Indicator of a Nearby Catastrophic Shift. American Naturalist, 2007, 169, 738-747.	1.0	409
31	Future of the human climate niche. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11350-11355.	3.3	400
32	A morphological classification capturing functional variation in phytoplankton. Freshwater Biology, 2010, 55, 614-627.	1.2	393
33	Complexity theory and financial regulation. Science, 2016, 351, 818-819.	6.0	361
34	Estimating habitat isolation in landscape planning. Landscape and Urban Planning, 1992, 23, 1-16.	3.4	356
35	Resilience indicators: prospects and limitations for early warnings of regime shifts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130263.	1.8	349
36	Chaos in a long-term experiment with a plankton community. Nature, 2008, 451, 822-825.	13.7	343

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37	Regime shifts in marine ecosystems: detection, prediction and management. Trends in Ecology and Evolution, 2008, 23, 402-409.	4.2	339
38	Generic Indicators of Ecological Resilience: Inferring the Chance of a Critical Transition. Annual Review of Ecology, Evolution, and Systematics, 2015, 46, 145-167.	3.8	339
39	Floating plant dominance as a stable state. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4040-4045.	3.3	338
40	Climate models predict increasing temperature variability in poor countries. Science Advances, 2018, 4, eaar5809.	4.7	287
41	Thresholds for boreal biome transitions. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21384-21389.	3.3	286
42	Early Warning Signals of Ecological Transitions: Methods for Spatial Patterns. PLoS ONE, 2014, 9, e92097.	1.1	286
43	Our future in the Anthropocene biosphere. Ambio, 2021, 50, 834-869.	2.8	275
44	Strong facilitation in mild environments: the stress gradient hypothesis revisited. Journal of Ecology, 2010, 98, 1269-1275.	1.9	271
45	Major Depression as a Complex Dynamic System. PLoS ONE, 2016, 11, e0167490.	1.1	271
46	The determination of ecological status in shallow lakes - a tested system (ECOFRAME) for implementation of the European Water Framework Directive. Aquatic Conservation: Marine and Freshwater Ecosystems, 2003, 13, 507-549.	0.9	266
47	Spatial correlation as leading indicator of catastrophic shifts. Theoretical Ecology, 2010, 3, 163-174.	0.4	255
48	Risks of Plastic Debris: Unravelling Fact, Opinion, Perception, and Belief. Environmental Science & Technology, 2017, 51, 11513-11519.	4.6	250
49	Robustness of variance and autocorrelation as indicators of critical slowing down. Ecology, 2012, 93, 264-271.	1.5	243
50	Multiscale regime shifts and planetary boundaries. Trends in Ecology and Evolution, 2013, 28, 389-395.	4.2	243
51	IMPLICATIONS OF SPATIAL HETEROGENEITY FOR CATASTROPHIC REGIME SHIFTS IN ECOSYSTEMS. Ecology, 2005, 86, 1797-1807.	1.5	240
52	Cascading effects of overfishing marine systems. Trends in Ecology and Evolution, 2005, 20, 579-581.	4.2	234
53	Regime Shifts in Shallow Lakes. Ecosystems, 2007, 10, 1-3.	1.6	218
54	Info-disruption: pollution and the transfer of chemical information between organisms. Trends in Ecology and Evolution, 2007, 22, 374-379.	4.2	217

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55	Tipping elements in the human intestinal ecosystem. Nature Communications, 2014, 5, 4344.	5.8	217
56	The sudden collapse of pollinator communities. Ecology Letters, 2014, 17, 350-359.	3.0	213
57	Regime Shifts in the Sahara and Sahel: Interactions between Ecological and Climatic Systems in Northern Africa. Ecosystems, 2003, 6, 524-532.	1.6	212
58	El NiÃ±o as a Window of Opportunity for the Restoration of Degraded Arid Ecosystems. Ecosystems, 2001, 4, 151-159.	1.6	211
59	Quantifying resilience of humans and other animals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11883-11890.	3.3	204
60	Slowing Down in Spatially Patterned Ecosystems at the Brink of Collapse. American Naturalist, 2011, 177, E153-E166.	1.0	203
61	Ecosystem tipping points in an evolving world. Nature Ecology and Evolution, 2019, 3, 355-362.	3.4	203
62	Transnational corporations and the challenge of biosphere stewardship. Nature Ecology and Evolution, 2019, 3, 1396-1403.	3.4	194
63	Climatic warming causes regime shifts in lake food webs. Limnology and Oceanography, 2001, 46, 1780-1783.	1.6	192
64	Forest-rainfall cascades buffer against drought across the Amazon. Nature Climate Change, 2018, 8, 539-543.	8.1	191
65	Increase of atmospheric CO2 promotes phytoplankton productivity. Ecology Letters, 2004, 7, 446-451.	3.0	186
66	Early warning signals also precede nonâ€catastrophic transitions. Oikos, 2013, 122, 641-648.	1.2	184
67	Why plankton communities have no equilibrium: solutions to the paradox. Hydrobiologia, 2003, 491, 9-18.	1.0	182
68	Catalogue of abrupt shifts in Intergovernmental Panel on Climate Change climate models. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5777-86.	3.3	182
69	Foreseeing tipping points. Nature, 2010, 467, 411-412.	13.7	165
70	What Do You Mean, â€˜Tipping Pointâ€™?. Trends in Ecology and Evolution, 2016, 31, 902-904.	4.2	159
71	Remotely sensed resilience of tropical forests. Nature Climate Change, 2016, 6, 1028-1031.	8.1	157
72	Socioeconomic Mechanisms Preventing Optimum Use of Ecosystem Services: An Interdisciplinary Theoretical Analysis. Ecosystems, 2000, 3, 451-471.	1.6	151

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73	Synchronous failure: the emerging causal architecture of global crisis. Ecology and Society, 2015, 20, .	1.0	144
74	Sunkâ€Cost Effects and Vulnerability to Collapse in Ancient Societies. Current Anthropology, 2003, 44, 722-728.	0.8	143
75	Catastrophic response of lakes to benthivorous fish introduction. Oikos, 2001, 94, 344-350.	1.2	140
76	Climateâ€dependent CO₂ emissions from lakes. Global Biogeochemical Cycles, 2010, 24, .	1.9	140
77	When can positive interactions cause alternative stable states in ecosystems?. Functional Ecology, 2016, 30, 88-97.	1.7	139
78	Implications of Spatial Heterogeneity for the Paradox of Enrichment. Ecology, 1995, 76, 2270-2277.	1.5	135
79	Geometric Analysis of Ecological Models with Slow and Fast Processes. Ecosystems, 2000, 3, 507-521.	1.6	133
80	Should we expect strange attractors behind plankton dynamics â€“ and if so, should we bother?. Journal of Plankton Research, 1991, 13, 1291-1305.	0.8	128
81	Warming Can Boost Denitrification Disproportionately Due to Altered Oxygen Dynamics. PLoS ONE, 2011, 6, e18508.	1.1	128
82	Pattern formation at multiple spatial scales drives the resilience of mussel bed ecosystems. Nature Communications, 2014, 5, 5234.	5.8	127
83	Climateâ€related differences in the dominance of submerged macrophytes in shallow lakes. Global Change Biology, 2009, 15, 2503-2517.	4.2	125
84	Creating a safe operating space for wetlands in a changing climate. Frontiers in Ecology and the Environment, 2017, 15, 99-107.	1.9	125
85	Distribution and dynamics of submerged vegetation in a chain of shallow eutrophic lakes. Aquatic Botany, 1992, 42, 199-216.	0.8	122
86	Synergy between small- and large-scale feedbacks of vegetation on the water cycle. Global Change Biology, 2005, 11, 1003-1012.	4.2	118
87	The angiosperm radiation revisited, an ecological explanation for Darwinâ€™s â€˜abominable mysteryâ€™. Ecology Letters, 2009, 12, 865-872.	3.0	118
88	Positive feedback between global warming and atmospheric CO2concentration inferred from past climate change. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	117
89	Large Species Shifts Triggered by Small Forces. American Naturalist, 2004, 164, 255-266.	1.0	116
90	Effects of interannual climate variability on tropical tree cover. Nature Climate Change, 2013, 3, 755-758.	8.1	115

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91	Causal feedbacks in climate change. Nature Climate Change, 2015, 5, 445-448.	8.1	115
92	A strategy to improve the contribution of complex simulation models to ecological theory. Ecological Modelling, 2005, 185, 153-164.	1.2	114
93	Critical phosphorus loading of different types of shallow lakes and the consequences for management estimated with the ecosystem model PCLake. Limnologica, 2008, 38, 203-219.	0.7	113
94	Vegetated areas with clear water in turbid shallow lakes. Aquatic Botany, 1994, 49, 193-196.	0.8	107
95	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
96	Pulse-Driven Loss of Top-Down Control: The Critical-Rate Hypothesis. Ecosystems, 2008, 11, 226-237.	1.6	103
97	Dominance of charophytes in eutrophic shallow lakesâ€"when should we expect it to be an alternative stable state?. Aquatic Botany, 2002, 72, 275-296.	0.8	98
98	Spatial selfâ€organized patterning in seagrasses along a depth gradient of an intertidal ecosystem. Ecology, 2010, 91, 362-369.	1.5	98
99	THE ROLE OF CHARACEAN ALGAE IN THE MANAGEMENT OF EUTROPHIC SHALLOW LAKES. Journal of Phycology, 1998, 34, 750-756.	1.0	97
100	Floodplains as an Achillesâ€™ heel of Amazonian forest resilience. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4442-4446.	3.3	96
101	Aquatic macrophytes: restore, eradicate or is there a compromise?. Aquatic Botany, 2002, 72, 387-403.	0.8	87
102	Fish facilitate wave resuspension of sediment. Limnology and Oceanography, 2003, 48, 1920-1926.	1.6	87
103	Vegetation recovery in tidal marshes reveals critical slowing down under increased inundation. Nature Communications, 2017, 8, 15811.	5.8	86
104	Slow Response of Societies to New Problems: Causes and Costs. Ecosystems, 2003, 6, 493-502.	1.6	83
105	Effects of fish on plankton dynamics: a theoretical analysis. Canadian Journal of Fisheries and Aquatic Sciences, 2000, 57, 1208-1219.	0.7	81
106	Interannual variability in species composition explained as seasonally entrained chaos. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2871-2880.	1.2	81
107	Effect of temperature and nutrients on the competition between free-floating Salvinia natans and submerged Elodea nuttallii in mesocosms. Fundamental and Applied Limnology, 2010, 177, 125-132.	0.4	81
108	Flickering as an early warning signal. Theoretical Ecology, 2013, 6, 309-317.	0.4	81

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109	EARLY WARNINGS FOR CATASTROPHIC SHIFTS IN ECOSYSTEMS: COMPARISON BETWEEN SPATIAL AND TEMPORAL INDICATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 315-321.	0.7	80
110	Tipping points in tropical tree cover: linking theory to data. Global Change Biology, 2014, 20, 1016-1021.	4.2	80
111	Abrupt regime shifts in space and time along rivers and connected lake systems. Oikos, 2011, 120, 766-775.	1.2	79
112	Adaptive Management of the Great Barrier Reef and the Grand Canyon World Heritage Areas. Ambio, 2007, 36, 586-592.	2.8	77
113	Effects of aquatic vegetation type on denitrification. Biogeochemistry, 2011, 104, 267-274.	1.7	77
114	A Theory for Cyclic Shifts between Alternative States in Shallow Lakes. Ecosystems, 2007, 10, 17-28.	1.6	76
115	Inequality in nature and society. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13154-13157.	3.3	76
116	Alternative Attractors of Shallow Lakes. Scientific World Journal, The, 2001, 1, 254-263.	0.8	74
117	Resuspension of algal cells by benthivorous fish boosts phytoplankton biomass and alters community structure in shallow lakes. Freshwater Biology, 2007, 52, 977-987.	1.2	74
118	Multiple feedbacks and the prevalence of alternate stable states on coral reefs. Coral Reefs, 2016, 35, 857-865.	0.9	74
119	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. Critical Care Medicine, 2016, 44, 601-606.	0.4	73
120	Charisma: a spatial explicit simulation model of submerged macrophytes. Ecological Modelling, 2003, 159, 103-116.	1.2	70
121	MEGAPLANT: a simulation model of the dynamics of submerged plants. Aquatic Botany, 1993, 45, 341-356.	0.8	69
122	Effects of Submerged Vegetation on Water Clarity Across Climates. Ecosystems, 2009, 12, 1117-1129.	1.6	69
123	Can overwintering versus diapausing strategy in Daphnia determine matchâ€“mismatch events in zooplanktonâ€“algae interactions?. Oecologia, 2007, 150, 682-698.	0.9	67
124	The effect of aquatic vegetation on turbidity; how important are the filter feeders?. Hydrobiologia, 1999, 408/409, 307-316.	1.0	65
125	Growth of shredders on leaf litter biofilms: the effect of light intensity. Freshwater Biology, 2005, 50, 459-466.	1.2	64
126	Resilience in Clinical Care: Getting a Grip on the Recovery Potential of Older Adults. Journal of the American Geriatrics Society, 2019, 67, 2650-2657.	1.3	64

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127	Climate engineering reconsidered. Nature Climate Change, 2014, 4, 527-529.	8.1	63
128	What if solar energy becomes really cheap? A thought experiment on environmental problem shifting. Current Opinion in Environmental Sustainability, 2015, 14, 170-179.	3.1	62
129	Dynamical Resilience Indicators in Time Series of Self-Rated Health Correspond to Frailty Levels in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 991-996.	1.7	62
130	Importance of Nutrient Competition and Allelopathic Effects in Suppression of the Green Alga Scenedesmus obliquus by the Macrophytes Chara, Elodea and Myriophyllum. Hydrobiologia, 2006, 556, 209-220.	1.0	60
131	Ambiguous climate impacts on competition between submerged macrophytes and phytoplankton in shallow lakes. Freshwater Biology, 2011, 56, 1540-1553.	1.2	59
132	The role of subtropical zooplankton as grazers of phytoplankton under different predation levels. Freshwater Biology, 2013, 58, 494-503.	1.2	59
133	Hydrology-Driven Regime Shifts in a Shallow Tropical Lake. Ecosystems, 2009, 12, 807-819.	1.6	58
134	Slow Recovery from Local Disturbances as an Indicator for Loss of Ecosystem Resilience. Ecosystems, 2018, 21, 141-152.	1.6	58
135	Toward a unifying theory of biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 639-641.	3.3	56
136	Perpest model, a caseâ€based reasoning approach to predict ecological risks of pesticides. Environmental Toxicology and Chemistry, 2002, 21, 2500-2506.	2.2	55
137	Resilience of Alternative States in Spatially Extended Ecosystems. PLoS ONE, 2015, 10, e0116859.	1.1	55
138	Climate reddening increases the chance of critical transitions. Nature Climate Change, 2018, 8, 478-484.	8.1	55
139	Exit time as a measure of ecological resilience. Science, 2021, 372, .	6.0	55
140	Microscale vegetationâ€soil feedback boosts hysteresis in a regional vegetationâ€“climate system. Global Change Biology, 2008, 14, 1104-1112.	4.2	54
141	Local ecosystem feedbacks and critical transitions in the climate. Ecological Complexity, 2011, 8, 223-228.	1.4	54
142	Superorganisms or loose collections of species? A unifying theory of community patterns along environmental gradients. Ecology Letters, 2019, 22, 1243-1252.	3.0	52
143	Mechanisms for marine regime shifts: Can we use lakes as microcosms for oceans?. Progress in Oceanography, 2004, 60, 303-319.	1.5	48
144	Remotely sensed canopy height reveals three pantropical ecosystem states. Ecology, 2016, 97, 2518-2521.	1.5	47

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145	Why trees and shrubs but rarely trubs?. Trends in Ecology and Evolution, 2014, 29, 433-434.	4.2	46
146	WTO must ban harmful fisheries subsidies. Science, 2021, 374, 544-544.	6.0	45
147	Changing weather conditions and floating plants in temperate drainage ditches. Journal of Applied Ecology, 2013, 50, 585-593.	1.9	44
148	Observed trends in the magnitude and persistence of monthly temperature variability. Scientific Reports, 2017, 7, 5940.	1.6	44
149	Predicting microbial nitrogen pathways from basic principles. Environmental Microbiology, 2011, 13, 1477-1487.	1.8	43
150	Local Facilitation May Cause Tipping Points on a Landscape Level Preceded by Early-Warning Indicators. American Naturalist, 2015, 186, E81-E90.	1.0	43
151	Resilience of tropical tree cover: The roles of climate, fire, and herbivory. Global Change Biology, 2018, 24, 5096-5109.	4.2	43
152	The minute-scale dynamics of online emotions reveal the effects of affect labeling. Nature Human Behaviour, 2019, 3, 92-100.	6.2	43
153	PISCATOR, an individual-based model to analyze the dynamics of lake fish communities. Ecological Modelling, 2002, 152, 261-278.	1.2	42
154	Habitat-mediated cannibalism and microhabitat restriction in the stream invertebrate Gammarus pulex. Hydrobiologia, 2007, 589, 155-164.	1.0	42
155	Resonance of Plankton Communities with Temperature Fluctuations. American Naturalist, 2011, 178, E85-E95.	1.0	42
156	Fire forbids fifty-fifty forest. PLoS ONE, 2018, 13, e0191027.	1.1	42
157	Feedback between climate change and eutrophication: revisiting the allied attack concept and how to strike back. Inland Waters, 2022, 12, 187-204.	1.1	41
158	Alternative attractors may boost uncertainty and sensitivity in ecological models. Ecological Modelling, 2003, 159, 117-124.	1.2	39
159	Omnivory by Planktivores Stabilizes Plankton Dynamics, but May Either Promote or Reduce Algal Biomass. Ecosystems, 2010, 13, 410-420.	1.6	39
160	Foreseeing the future of mutualistic communities beyond collapse. Ecology Letters, 2020, 23, 2-15.	3.0	37
161	The forgotten half of scientific thinking. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6119-6119.	3.3	36
162	Minimal models of top-down control of phytoplankton. Freshwater Biology, 2000, 45, 265-283.	1.2	35

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163	Why are forests so scarce in subtropical South America? The shaping roles of climate, fire and livestock. Forest Ecology and Management, 2016, 363, 212-217.	1.4	35
164	Technology driven inequality leads to poverty and resource depletion. Ecological Economics, 2019, 160, 215-226.	2.9	35
165	The Evolution of Functionally Redundant Species; Evidence from Beetles. PLoS ONE, 2015, 10, e0137974.	1.1	34
166	The paradox of the clumps mathematically explained. Theoretical Ecology, 2009, 2, 171-176.	0.4	33
167	Alternative Stable States Driven by Density-Dependent Toxicity. Ecosystems, 2010, 13, 841-850.	1.6	33
168	Social dimensions of fertility behavior and consumption patterns in the Anthropocene. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6300-6307.	3.3	33
169	Effects of interstitial refugia and current velocity on growth of the amphipodGammarus pulexLinnaeus. Journal of the North American Benthological Society, 2006, 25, 656-663.	3.0	32
170	Repeated Parallel Evolution Reveals Limiting Similarity in Subterranean Diving Beetles. American Naturalist, 2013, 182, 67-75.	1.0	32
171	Modeling Growth and Survival in an Age-0 Fish Cohort. Transactions of the American Fisheries Society, 1993, 122, 927-941.	0.6	31
172	Assessing ecological quality of shallow lakes: Does knowledge of transparency suffice?. Basic and Applied Ecology, 2009, 10, 89-96.	1.2	31
173	Strong growth limitation of a floating plant (Lemna gibba) by the submerged macrophyte (Elodea nuttallii) under laboratory conditions. Freshwater Biology, 2010, 55, 681-690.	1.2	30
174	How to Break the Cycle of Low Workforce Diversity: A Model for Change. PLoS ONE, 2015, 10, e0133208.	1.1	30
175	Rare, Intense, Big fires dominate the global tropics under drier conditions. Scientific Reports, 2017, 7, 14374.	1.6	30
176	Dynamical Indicators of Resilience in Postural Balance Time Series Are Related to Successful Aging in High-Functioning Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 1119-1126.	1.7	29
177	Impacts of agricultural phosphorus use in catchments on shallow lake water quality: About buffers, time delays and equilibria. Science of the Total Environment, 2006, 369, 280-294.	3.9	28
178	Bimodal transparency as an indicator for alternative states in South American lakes. Freshwater Biology, 2012, 57, 1191-1201.	1.2	28
179	Bimodality in stable isotope composition facilitates the tracing of carbon transfer from macrophytes to higher trophic levels. Hydrobiologia, 2013, 710, 205-218.	1.0	28
180	Anticipating societal collapse; Hints from the Stone Age. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10733-10735.	3.3	28

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181	Understanding migraine using dynamic network biomarkers. Cephalalgia, 2015, 35, 627-630.	1.8	27
182	Survival of the Systems. Trends in Ecology and Evolution, 2021, 36, 333-344.	4.2	25
183	Reduced topâ€“down control of phytoplankton in warmer climates can be explained by continuous fish reproduction. Ecological Modelling, 2007, 206, 205-212.	1.2	24
184	Depression alters the circadian pattern of online activity. Scientific Reports, 2020, 10, 17272.	1.6	24
185	Migraine Strikes as Neuronal Excitability Reaches a Tipping Point. PLoS ONE, 2013, 8, e72514.	1.1	22
186	Earlyâ€Warning Signals for Marine Anoxic Events. Geophysical Research Letters, 2020, 47, e2020GL089183.	1.5	22
187	Stochastic dynamics of Cyanobacteria in longâ€term highâ€frequency observations of a eutrophic lake. Limnology and Oceanography Letters, 2020, 5, 331-336.	1.6	22
188	Climbing Escherâ€™s stairs: A way to approximate stability landscapes in multidimensional systems. PLoS Computational Biology, 2020, 16, e1007788.	1.5	21
189	The consequences of changes in abundance of Callianassa subterranea and Amphiura filiformis on sediment erosion at the Frisian Front (south-eastern North Sea). Hydrobiologia, 2007, 589, 273-285.	1.0	20
190	A simple model for evaluating the costs and benefits of aquatic macrophytes. Hydrobiologia, 1999, 415, 335-339.	1.0	19
191	Livestock Herbivory Shapes Fire Regimes and Vegetation Structure Across the Global Tropics. Ecosystems, 2019, 22, 1457-1465.	1.6	17
192	Was Lates Late? A Null Model for the Nile Perch Boom in Lake Victoria. PLoS ONE, 2013, 8, e76847.	1.1	17
193	A global climate niche for giant trees. Global Change Biology, 2018, 24, 2875-2883.	4.2	15
194	On the implications of predator avoidance. Aquatic Ecology, 1997, 31, 99-107.	0.7	14
195	Statistical indicators of Arctic sea-ice stability â€“ prospects and limitations. Cryosphere, 2016, 10, 1631-1645.	1.5	14
196	Finding the direction of lowest resilience in multivariate complex systems. Journal of the Royal Society Interface, 2019, 16, 20190629.	1.5	14
197	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. BioScience, 2020, 70, 1139-1144.	2.2	14
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