

James J Elser

List of Publications by Year in descending order

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278
papers

38,603
citations

3919

88
h-index

3173

186
g-index

303
all docs

303
docs citations

303
times ranked

30259
citing authors

#	ARTICLE	IF	CITATIONS
1	Global analysis of nitrogen and phosphorus limitation of primary producers in freshwater, marine and terrestrial ecosystems. <i>Ecology Letters</i> , 2007, 10, 1135-1142.	3.0	3,460
2	TRY – a global database of plant traits. <i>Global Change Biology</i> , 2011, 17, 2905-2935.	4.2	2,002
3	The Global Carbon Cycle: A Test of Our Knowledge of Earth as a System. <i>Science</i> , 2000, 290, 291-296.	6.0	1,601
4	Nutritional constraints in terrestrial and freshwater food webs. <i>Nature</i> , 2000, 408, 578-580.	13.7	1,264
5	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
6	Biological stoichiometry from genes to ecosystems. <i>Ecology Letters</i> , 2000, 3, 540-550.	3.0	867
7	Organism Size, Life History, and N:P Stoichiometry. <i>BioScience</i> , 1996, 46, 674-684.	2.2	837
8	Regulation of Lake Primary Productivity by Food Web Structure. <i>Ecology</i> , 1987, 68, 1863-1876.	1.5	762
9	Growth rate-stoichiometry couplings in diverse biota. <i>Ecology Letters</i> , 2003, 6, 936-943.	3.0	758
10	Nutrient co-limitation of primary producer communities. <i>Ecology Letters</i> , 2011, 14, 852-862.	3.0	747
11	Biological stoichiometry of plant production: metabolism, scaling and ecological response to global change. <i>New Phytologist</i> , 2010, 186, 593-608.	3.5	741
12	A broken biogeochemical cycle. <i>Nature</i> , 2011, 478, 29-31.	13.7	734
13	Ecological Stoichiometry. , 2003, , .		687
14	Shifts in Lake N:P Stoichiometry and Nutrient Limitation Driven by Atmospheric Nitrogen Deposition. <i>Science</i> , 2009, 326, 835-837.	6.0	655
15	Beyond the Plankton Ecology Group (PEG) Model: Mechanisms Driving Plankton Succession. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2012, 43, 429-448.	3.8	604
16	Phosphorus and Nitrogen Limitation of Phytoplankton Growth in the Freshwaters of North America: A Review and Critique of Experimental Enrichments. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1990, 47, 1468-1477.	0.7	576
17	THE STOICHIOMETRY OF CONSUMER-DRIVEN NUTRIENT RECYCLING: THEORY, OBSERVATIONS, AND CONSEQUENCES. <i>Ecology</i> , 1999, 80, 735-751.	1.5	523
18	CARBON SEQUESTRATION IN ECOSYSTEMS: THE ROLE OF STOICHIOMETRY. <i>Ecology</i> , 2004, 85, 1179-1192.	1.5	476

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19	The Light: Nutrient Ratio in Lakes: The Balance of Energy and Materials Affects Ecosystem Structure and Process. <i>American Naturalist</i> , 1997, 150, 663-684.	1.0	415
20	Sustainability Challenges of Phosphorus and Food: Solutions from Closing the Human Phosphorus Cycle. <i>BioScience</i> , 2011, 61, 117-124.	2.2	412
21	Phylogenetic and Growth Form Variation in the Scaling of Nitrogen and Phosphorus in the Seed Plants. <i>American Naturalist</i> , 2006, 168, E103-E122.	1.0	383
22	Nitrogen in Insects: Implications for Trophic Complexity and Species Diversification. <i>American Naturalist</i> , 2002, 160, 784-802.	1.0	358
23	A cross-system synthesis of consumer and nutrient resource control on producer biomass. <i>Ecology Letters</i> , 2008, 11, 740-755.	3.0	334
24	Consumer versus resource control of producer diversity depends on ecosystem type and producer community structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10904-10909.	3.3	302
25	Zooplankton-mediated transitions between N- and P-limited algal growth. <i>Limnology and Oceanography</i> , 1988, 33, 1-14.	1.6	294
26	Metabolic Stoichiometry and the Fate of Excess Carbon and Nutrients in Consumers. <i>American Naturalist</i> , 2005, 165, 1-15.	1.0	287
27	Long-term accumulation and transport of anthropogenic phosphorus in three river basins. <i>Nature Geoscience</i> , 2016, 9, 353-356.	5.4	282
28	Linking stoichiometric homeostasis with ecosystem structure, functioning and stability. <i>Ecology Letters</i> , 2010, 13, 1390-1399.	3.0	271
29	Stoichiometric relationships among producers, consumers and nutrient cycling in pelagic ecosystems. <i>Biogeochemistry</i> , 1992, 17, 49.	1.7	266
30	Plant allometry, stoichiometry and the temperature-dependence of primary productivity. <i>Global Ecology and Biogeography</i> , 2005, 14, 585-598.	2.7	259
31	Phosphorus: a limiting nutrient for humanity?. <i>Current Opinion in Biotechnology</i> , 2012, 23, 833-838.	3.3	259
32	Plankton dynamics under different climatic conditions in space and time. <i>Freshwater Biology</i> , 2013, 58, 463-482.	1.2	259
33	Ecological stoichiometry: An elementary approach using basic principles. <i>Limnology and Oceanography</i> , 2013, 58, 2219-2236.	1.6	251
34	Water Depth Underpins the Relative Roles and Fates of Nitrogen and Phosphorus in Lakes. <i>Environmental Science & Technology</i> , 2020, 54, 3191-3198.	4.6	247
35	A stoichiometric analysis of the zooplankton-phytoplankton interaction in marine and freshwater ecosystems. <i>Nature</i> , 1994, 370, 211-213.	13.7	246
36	Scale-dependent carbon:nitrogen:phosphorus seston stoichiometry in marine and freshwaters. <i>Limnology and Oceanography</i> , 2008, 53, 1169-1180.	1.6	238

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37	The biogeography and filtering of woody plant functional diversity in North and South America. <i>Global Ecology and Biogeography</i> , 2012, 21, 798-808.	2.7	235
38	Temperature and the chemical composition of poikilothermic organisms. <i>Functional Ecology</i> , 2003, 17, 237-245.	1.7	221
39	Stoichiometry and population dynamics. <i>Ecology Letters</i> , 2004, 7, 884-900.	3.0	221
40	FUNDAMENTAL CONNECTIONS AMONG ORGANISM C:N:P STOICHIOMETRY, MACROMOLECULAR COMPOSITION, AND GROWTH. <i>Ecology</i> , 2004, 85, 1217-1229.	1.5	218
41	TOO MUCH OF A GOOD THING: ON STOICHIOMETRICALLY BALANCED DIETS AND MAXIMAL GROWTH. <i>Ecology</i> , 2006, 87, 1325-1330.	1.5	218
42	Growth responses of littoral mayflies to the phosphorus content of their food. <i>Ecology Letters</i> , 2002, 5, 232-240.	3.0	217
43	Stoichiometry in Producer-Grazer Systems: Linking Energy Flow with Element Cycling. <i>Bulletin of Mathematical Biology</i> , 2000, 62, 1137-1162.	0.9	206
44	Stoichiometric tracking of soil nutrients by a desert insect herbivore. <i>Ecology Letters</i> , 2003, 6, 96-101.	3.0	200
45	Occurrence and fate of microplastic debris in middle and lower reaches of the Yangtze River - From inland to the sea. <i>Science of the Total Environment</i> , 2019, 659, 66-73.	3.9	200
46	NUTRIENT LIMITATION REDUCES FOOD QUALITY FOR ZOOPLANKTON:DAPHNIA RESPONSE TO SESTON PHOSPHORUS ENRICHMENT. <i>Ecology</i> , 2001, 82, 898-903.	1.5	197
47	An endangered oasis of aquatic microbial biodiversity in the Chihuahuan desert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6565-6570.	3.3	197
48	Intensification of phosphorus cycling in China since the 1600s. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2609-2614.	3.3	191
49	Zooplankton effects on phytoplankton in lakes of contrasting trophic status. <i>Limnology and Oceanography</i> , 1991, 36, 64-90.	1.6	185
50	Heavy Livestock Grazing Promotes Locust Outbreaks by Lowering Plant Nitrogen Content. <i>Science</i> , 2012, 335, 467-469.	6.0	180
51	The origins of the Redfield nitrogen-to-phosphorus ratio are in a homeostatic protein-to-rRNA ratio. <i>Ecology Letters</i> , 2011, 14, 244-250.	3.0	172
52	Soil acidity, ecological stoichiometry and allometric scaling in grassland food webs. <i>Global Change Biology</i> , 2009, 15, 2730-2738.	4.2	171
53	Stoichiometric homeostasis of vascular plants in the Inner Mongolia grassland. <i>Oecologia</i> , 2011, 166, 1-10.	0.9	171
54	Greening the global phosphorus cycle: how green chemistry can help achieve planetary P sustainability. <i>Green Chemistry</i> , 2015, 17, 2087-2099.	4.6	170

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55	Impacts of Nitrogen and Phosphorus: From Genomes to Natural Ecosystems and Agriculture. <i>Frontiers in Ecology and Evolution</i> , 2017, 5, .	1.1	168
56	N : P stoichiometry and ontogeny of crustacean zooplankton: A test of the growth rate hypothesis. <i>Limnology and Oceanography</i> , 1997, 42, 1474-1478.	1.6	166
57	Evidence of a general 2/3-power law of scaling leaf nitrogen to phosphorus among major plant groups and biomes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 877-883.	1.2	163
58	Sustainable Phosphorus Management and the Need for a Long-Term Perspective: The Legacy Hypothesis. <i>Environmental Science & Technology</i> , 2014, 48, 8417-8419.	4.6	161
59	Obligate herbivory in an ancestrally carnivorous lineage: the giant panda and bamboo from the perspective of nutritional geometry. <i>Functional Ecology</i> , 2015, 29, 26-34.	1.7	160
60	The evolution of ecosystem processes: growth rate and elemental stoichiometry of a key herbivore in temperate and arctic habitats. <i>Journal of Evolutionary Biology</i> , 2000, 13, 845-853.	0.8	152
61	The metabolic basis of whole-organism RNA and phosphorus content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11923-11927.	3.3	151
62	Nutrient availability and phytoplankton nutrient limitation across a gradient of atmospheric nitrogen deposition. <i>Ecology</i> , 2009, 90, 3062-3073.	1.5	149
63	ROSEMARY MACKAY FUND ARTICLE: Ecological stoichiometry of trophic interactions in the benthos: understanding the role of C:N:P ratios in lentic and lotic habitats. <i>Journal of the North American Benthological Society</i> , 2002, 21, 515-528.	3.0	148
64	Herbivore metabolism and stoichiometry each constrain herbivory at different organizational scales across ecosystems. <i>Ecology Letters</i> , 2009, 12, 516-527.	3.0	144
65	Stoichiometric regulation of phytoplankton toxins. <i>Ecology Letters</i> , 2014, 17, 736-742.	3.0	144
66	Pelagic C:N:P Stoichiometry in a Eutrophied Lake: Responses to a Whole-Lake Food-Web Manipulation. <i>Ecosystems</i> , 2000, 3, 293-307.	1.6	143
67	Improvement in municipal wastewater treatment alters lake nitrogen to phosphorus ratios in populated regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11566-11572.	3.3	141
68	The Functional Significance of Ribosomal (r)DNA Variation: Impacts on the Evolutionary Ecology of Organisms. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2005, 36, 219-242.	3.8	137
69	Chlorophyll production, degradation, and sedimentation: Implications for paleolimnology1. <i>Limnology and Oceanography</i> , 1986, 31, 112-124.	1.6	135
70	Effects of simulated nitrogen deposition on soil respiration components and their temperature sensitivities in a semiarid grassland. <i>Soil Biology and Biochemistry</i> , 2014, 75, 113-123.	4.2	135
71	Ecoenzymatic stoichiometry at the extremes: How microbes cope in an ultra-oligotrophic desert soil. <i>Soil Biology and Biochemistry</i> , 2015, 87, 34-42.	4.2	134
72	Accelerate Synthesis in Ecology and Environmental Sciences. <i>BioScience</i> , 2009, 59, 699-701.	2.2	132

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73	Phosphorus accumulates faster than nitrogen globally in freshwater ecosystems under anthropogenic impacts. <i>Ecology Letters</i> , 2016, 19, 1237-1246.	3.0	129
74	Stoichiometric Constraints on Food-Web Dynamics: A Whole-Lake Experiment on the Canadian Shield. <i>Ecosystems</i> , 1998, 1, 120-136.	1.6	125
75	Stoichiometric impacts of increased carbon dioxide on a planktonic herbivore. <i>Global Change Biology</i> , 2003, 9, 818-825.	4.2	123
76	Biological stoichiometry of <i>Daphnia</i> growth: An ecophysiological test of the growth rate hypothesis. <i>Limnology and Oceanography</i> , 2004, 49, 656-665.	1.6	122
77	Dietary phosphorus affects the growth of larval <i>Manduca sexta</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 2004, 55, 153-168.	0.6	121
78	Ecological stoichiometry of N and P in pelagic ecosystems: Comparison of lakes and oceans with emphasis on the zooplankton-phytoplankton interaction. <i>Limnology and Oceanography</i> , 1997, 42, 648-662.	1.6	119
79	Competition and stoichiometry: coexistence of two predators on one prey. <i>Theoretical Population Biology</i> , 2004, 65, 1-15.	0.5	118
80	Biological Stoichiometry: A Chemical Bridge between Ecosystem Ecology and Evolutionary Biology. <i>American Naturalist</i> , 2006, 168, S25-S35.	1.0	117
81	Effects of phosphorus enrichment and grazing snails on modern stromatolitic microbial communities. <i>Freshwater Biology</i> , 2005, 50, 1808-1825.	1.2	116
82	The role of diet in phosphorus demand. <i>Environmental Research Letters</i> , 2012, 7, 044043.	2.2	114
83	Imbalanced atmospheric nitrogen and phosphorus depositions in China: Implications for nutrient limitation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1605-1616.	1.3	113
84	Signatures of nutrient limitation and co-limitation: responses of autotroph internal nutrient concentrations to nitrogen and phosphorus additions. <i>Oikos</i> , 2015, 124, 113-121.	1.2	109
85	Nutrient limitation of bacterial growth and rates of bacterivory in lakes and oceans: a comparative study. <i>Aquatic Microbial Ecology</i> , 1995, 9, 105-110.	0.9	108
86	Stoichiometry and the New Biology: The Future Is Now. <i>PLoS Biology</i> , 2007, 5, e181.	2.6	103
87	JOINT EFFECTS OF UV RADIATION AND PHOSPHORUS SUPPLY ON ALGAL GROWTH RATE AND ELEMENTAL COMPOSITION. <i>Ecology</i> , 2002, 83, 423-435.	1.5	100
88	Genetic Manipulation of a <i>Vacuolar H⁺-PPase</i> : From Salt Tolerance to Yield Enhancement under Phosphorus-Deficient Soils. <i>Plant Physiology</i> , 2012, 159, 3-11.	2.3	98
89	Stoichiometric food quality and herbivore dynamics. <i>Ecology Letters</i> , 2001, 4, 519-529.	3.0	93
90	The pathway to noxious cyanobacteria blooms in lakes: the food web as the final turn. <i>Freshwater Biology</i> , 1999, 42, 537-543.	1.2	92

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91	Carbon:Nitrogen:Phosphorus Stoichiometry in Fungi: A Meta-Analysis. <i>Frontiers in Microbiology</i> , 2017, 8, 1281.	1.5	92
92	The phosphorus-rich signature of fire in the soil-plant system: a global meta-analysis. <i>Ecology Letters</i> , 2018, 21, 335-344.	3.0	91
93	Atmospheric nitrogen deposition influences denitrification and nitrous oxide production in lakes. <i>Ecology</i> , 2010, 91, 528-539.	1.5	89
94	Effects of grassland degradation on ecological stoichiometry of soil ecosystems on the Qinghai-Tibet Plateau. <i>Science of the Total Environment</i> , 2020, 722, 137910.	3.9	88
95	Microbial endemism: does phosphorus limitation enhance speciation?. <i>Nature Reviews Microbiology</i> , 2008, 6, 559-564.	13.6	87
96	Functional and ecological significance of rDNA intergenic spacer variation in a clonal organism under divergent selection for production rate. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 2373-2379.	1.2	86
97	A transgenic approach to enhance phosphorus use efficiency in crops as part of a comprehensive strategy for sustainable agriculture. <i>Chemosphere</i> , 2011, 84, 840-845.	4.2	86
98	The Cuatro Ciñegas Basin in Coahuila, Mexico: An Astrobiological Precambrian Park. <i>Astrobiology</i> , 2012, 12, 641-647.	1.5	86
99	Linkages of stoichiometric imbalances to soil microbial respiration with increasing nitrogen addition: Evidence from a long-term grassland experiment. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107580.	4.2	86
100	Atmospheric nitrogen deposition is associated with elevated phosphorus limitation of lake zooplankton. <i>Ecology Letters</i> , 2010, 13, 1256-1261.	3.0	83
101	Response of the Abundance of Key Soil Microbial Nitrogen-Cycling Genes to Multi-Factorial Global Changes. <i>PLoS ONE</i> , 2013, 8, e76500.	1.1	83
102	Herbivorous animals can mitigate unfavourable ratios of energy and material supplies by enhancing nutrient recycling. <i>Ecology Letters</i> , 2002, 5, 177-185.	3.0	82
103	Ingestion and egestion of polyethylene microplastics by goldfish (<i>Carassius auratus</i>): influence of color and morphological features. <i>Heliyon</i> , 2019, 5, e03063.	1.4	82
104	Effects of roots of <i>Myriophyllum verticillatum</i> L. on sediment redox conditions. <i>Aquatic Botany</i> , 1983, 17, 243-249.	0.8	79
105	Biological Stoichiometry in Human Cancer. <i>PLoS ONE</i> , 2007, 2, e1028.	1.1	79
106	RNA responses to N- and P-limitation; reciprocal regulation of stoichiometry and growth rate in <i>Brachionus</i> . <i>Functional Ecology</i> , 2007, 21, 956-962.	1.7	79
107	Elemental stoichiometry of <i>Drosophila</i> and their hosts. <i>Functional Ecology</i> , 1999, 13, 78-84.	1.7	78
108	Stoichiogenomics: the evolutionary ecology of macromolecular elemental composition. <i>Trends in Ecology and Evolution</i> , 2011, 26, 38-44.	4.2	77

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109	Assessment of "top-down" and "bottom-up" forces as determinants of rotifer distribution among lakes in Ontario, Canada. <i>Ecological Research</i> , 2003, 18, 639-650.	0.7	73
110	Taxonomic and Functional Differences between Microbial Communities in Qinghai Lake and Its Input Streams. <i>Frontiers in Microbiology</i> , 2017, 8, 2319.	1.5	73
111	Species-Dependent Effects of Zooplankton on Planktonic Ecosystem Processes in Castle Lake, California. <i>Ecology</i> , 1994, 75, 2243.	1.5	72
112	Ecological Nitrogen Limitation Shapes the DNA Composition of Plant Genomes. <i>Molecular Biology and Evolution</i> , 2009, 26, 953-956.	3.5	72
113	Early Cambrian food webs on a trophic knife-edge? A hypothesis and preliminary data from a modern stromatolite-based ecosystem. <i>Ecology Letters</i> , 2006, 9, 295-303.	3.0	71
114	The effect of host <i>Chlorella</i> NC64A carbon:phosphorus ratio on the production of <i>Paramecium bursaria</i> <i>Chlorella</i> Virus-1. <i>Freshwater Biology</i> , 2007, 52, 112-122.	1.2	68
115	Elemental Composition of Littoral Invertebrates from Oligotrophic and Eutrophic Canadian Lakes. <i>Journal of the North American Benthological Society</i> , 2003, 22, 51-62.	3.0	65
116	Signatures of Ecological Resource Availability in the Animal and Plant Proteomes. <i>Molecular Biology and Evolution</i> , 2006, 23, 1946-1951.	3.5	65
117	Stoichiometric response of nitrogen-fixing and non-fixing dicots to manipulations of CO ₂ , nitrogen, and diversity. <i>Oecologia</i> , 2007, 151, 687-696.	0.9	64
118	Element ratios and growth dynamics of bacteria in an oligotrophic Canadian shield lake. <i>Aquatic Microbial Ecology</i> , 1996, 11, 119-125.	0.9	63
119	Plant nutrients do not covary with soil nutrients under changing climatic conditions. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1298-1308.	1.9	62
120	Nutrient Stoichiometry Shapes Microbial Community Structure in an Evaporitic Shallow Pond. <i>Frontiers in Microbiology</i> , 2017, 8, 949.	1.5	62
121	Elemental ratios and the uptake and release of nutrients by phytoplankton and bacteria in three lakes of the Canadian shield. <i>Microbial Ecology</i> , 1995, 29, 145-162.	1.4	61
122	Response of grazing snails to phosphorus enrichment of modern stromatolitic microbial communities. <i>Freshwater Biology</i> , 2005, 50, 1826-1835.	1.2	60
123	Genotype—Environment interactions, stoichiometric food quality effects, and clonal coexistence in <i>Daphnia pulex</i> . <i>Oecologia</i> , 2005, 143, 537-547.	0.9	60
124	High-frequency fire alters C:N:P stoichiometry in forest litter. <i>Global Change Biology</i> , 2014, 20, 2321-2331.	4.2	60
125	How To Live with Phosphorus Scarcity in Soil and Sediment: Lessons from Bacteria. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4652-4662.	1.4	60
126	Nutrient Limitation Reduces Food Quality for Zooplankton: <i>Daphnia</i> Response to Seston Phosphorus Enrichment. <i>Ecology</i> , 2001, 82, 898.	1.5	58

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127	Effects of plant functional group loss on soil biota and net ecosystem exchange: a plant removal experiment in the Mongolian grassland. <i>Journal of Ecology</i> , 2016, 104, 734-743.	1.9	58
128	Species-specific algal responses to zooplankton: experimental and field observations in three nutrient-limited lakes. <i>Journal of Plankton Research</i> , 1987, 9, 699-717.	0.8	57
129	Effects of light and nutrients on the net accumulation and elemental composition of epilithon in boreal lakes. <i>Freshwater Biology</i> , 2002, 47, 173-183.	1.2	57
130	Enrichment experiment changes microbial interactions in an ultra-oligotrophic environment. <i>Frontiers in Microbiology</i> , 2015, 6, 246.	1.5	57
131	Down-regulation of tissue N:P ratios in terrestrial plants by elevated CO ₂ . <i>Ecology</i> , 2015, 96, 3354-3362.	1.5	57
132	Impact of a Short Evolution Module on Students' Perceived Conflict between Religion and Evolution. <i>American Biology Teacher</i> , 2017, 79, 104-111.	0.1	57
133	On the "strict homeostasis" assumption in ecological stoichiometry. <i>Ecological Modelling</i> , 2012, 243, 81-88.	1.2	56
134	Effects of functional diversity loss on ecosystem functions are influenced by compensation. <i>Ecology</i> , 2016, 97, 2293-2302.	1.5	56
135	Predation-driven dynamics of zooplankton and phytoplankton communities in a whole-lake experiment. <i>Oecologia</i> , 1988, 76, 148-154.	0.9	55
136	Testing the Growth Rate Hypothesis in Vascular Plants with Above- and Below-Ground Biomass. <i>PLoS ONE</i> , 2012, 7, e32162.	1.1	55
137	Nutrient enrichment and nutrient regeneration stimulate bacterioplankton growth. <i>Microbial Ecology</i> , 1995, 29, 221-230.	1.4	54
138	Effects of Food Web Compensation After Manipulation of Rainbow Trout in an Oligotrophic Lake. <i>Ecology</i> , 1995, 76, 52-69.	1.5	51
139	Factors potentially preventing trophic cascades: Food quality, invertebrate predation, and their interaction. <i>Limnology and Oceanography</i> , 1998, 43, 339-347.	1.6	51
140	Regime Shift in Fertilizer Commodities Indicates More Turbulence Ahead for Food Security. <i>PLoS ONE</i> , 2014, 9, e93998.	1.1	51
141	Life on the stoichiometric knife-edge: effects of high and low food C:P ratio on growth, feeding, and respiration in three <i>Daphnia</i> species. <i>Inland Waters</i> , 2016, 6, 136-146.	1.1	51
142	The impact of nitrogen enrichment on grassland ecosystem stability depends on nitrogen addition level. <i>Science of the Total Environment</i> , 2018, 618, 1529-1538.	3.9	51
143	Global biogeography of autotroph chemistry: is insolation a driving force?. <i>Oikos</i> , 2013, 122, 1121-1130.	1.2	50
144	Lotka re-loaded: Modeling trophic interactions under stoichiometric constraints. <i>Ecological Modelling</i> , 2012, 245, 3-11.	1.2	49

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145	A World Awash with Nitrogen. <i>Science</i> , 2011, 334, 1504-1505.	6.0	48
146	Absorption and storage of phosphorus by larval <i>Manduca sexta</i> . <i>Journal of Insect Physiology</i> , 2002, 48, 555-564.	0.9	46
147	Dynamics of Stoichiometric Bacteria-Algae Interactions in the Epilimnion. <i>SIAM Journal on Applied Mathematics</i> , 2007, 68, 503-522.	0.8	46
148	Key rules of life and the fading cryosphere: Impacts in alpine lakes and streams. <i>Global Change Biology</i> , 2020, 26, 6644-6656.	4.2	46
149	Biogeochemical cycling of PCBs in lakes of variable trophic status: A paired-lake experiment. <i>Limnology and Oceanography</i> , 1999, 44, 889-902.	1.6	45
150	Living With Locusts: Connecting Soil Nitrogen, Locust Outbreaks, Livelihoods, and Livestock Markets. <i>BioScience</i> , 2015, 65, 551-558.	2.2	45
151	Microbial functional genes elucidate environmental drivers of biofilm metabolism in glacier-fed streams. <i>Scientific Reports</i> , 2017, 7, 12668.	1.6	45
152	Extreme ecological stoichiometry of a bark beetle–fungus mutualism. <i>Ecological Entomology</i> , 2019, 44, 543-551.	1.1	45
153	Thermal stratification, nutrient dynamics, and phytoplankton productivity during the onset of spring phytoplankton growth in Lake Baikal, Russia. <i>Hydrobiologia</i> , 1996, 331, 9-24.	1.0	44
154	Associations among ribosomal (r)DNA intergenic spacer length, growth rate, and C:N:P stoichiometry in the genus <i>Daphnia</i> . <i>Limnology and Oceanography</i> , 2004, 49, 1417-1423.	1.6	44
155	Effects of stoichiometric dietary mixing on <i>Daphnia</i> growth and reproduction. <i>Oecologia</i> , 2004, 138, 333-340.	0.9	44
156	Phosphorus mitigation remains critical in water protection: A review and meta-analysis from one of China's most eutrophicated lakes. <i>Science of the Total Environment</i> , 2019, 689, 1336-1347.	3.9	44
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