

Robert W Sterner

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8278717/publications.pdf>

Version: 2024-02-01

86
papers

9,169
citations

53660

45
h-index

56606

83
g-index

137
all docs

137
docs citations

137
times ranked

7624
citing authors

#	ARTICLE	IF	CITATIONS
1	Need for harmonized long-term multi-lake monitoring of African Great Lakes. <i>Journal of Great Lakes Research</i> , 2023, 49, 101988.	0.8	16
2	Building a research network to better understand climate governance in the Great Lakes. <i>Journal of Great Lakes Research</i> , 2022, 48, 1329-1336.	0.8	2
3	The Laurentian Great Lakes: A Biogeochemical Test Bed. <i>Annual Review of Earth and Planetary Sciences</i> , 2021, 49, 201-229.	4.6	13
4	Geochemistry and mineralogy of southwestern Lake Superior sediments with an emphasis on phosphorus lability. <i>Journal of Soils and Sediments</i> , 2020, 20, 1060-1073.	1.5	16
5	Ecosystem services of Earth's largest freshwater lakes. <i>Ecosystem Services</i> , 2020, 41, 101046.	2.3	109
6	Seasonality and physical drivers of deep chlorophyll layers in Lake Superior, with implications for a rapidly warming lake. <i>Journal of Great Lakes Research</i> , 2020, 46, 1615-1624.	0.8	12
7	Fluvial seeding of cyanobacterial blooms in oligotrophic Lake Superior. <i>Harmful Algae</i> , 2020, 100, 101941.	2.2	18
8	A first assessment of cyanobacterial blooms in oligotrophic Lake Superior. <i>Limnology and Oceanography</i> , 2020, 65, 2984-2998.	1.6	43
9	Transitions in microbial communities along a 1600-km freshwater trophic gradient. <i>Journal of Great Lakes Research</i> , 2019, 45, 263-276.	0.8	10
10	Tale of Two Storms: Impact of Extreme Rain Events on the Biogeochemistry of Lake Superior. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1719-1731.	1.3	20
11	Editorial: Progress in Ecological Stoichiometry. <i>Frontiers in Microbiology</i> , 2018, 9, 1957.	1.5	36
12	Grand challenges for research in the Laurentian Great Lakes. <i>Limnology and Oceanography</i> , 2017, 62, 2510-2523.	1.6	55
13	Changes in the cladoceran community of Lake Superior and the role of <i>Bythotrephes longimanus</i> . <i>Journal of Great Lakes Research</i> , 2017, 43, 1101-1110.	0.8	7
14	Ecology under lake ice. <i>Ecology Letters</i> , 2017, 20, 98-111.	3.0	320
15	Large differences in potential denitrification and sediment microbial communities across the Laurentian great lakes. <i>Biogeochemistry</i> , 2016, 128, 353-368.	1.7	34
16	Nitrogen cycling in a freshwater estuary. <i>Biogeochemistry</i> , 2016, 127, 199-216.	1.7	27
17	Couples that have chemistry: when ecological theories meet. <i>Oikos</i> , 2015, 124, 917-919.	1.2	3
18	Ocean stoichiometry, global carbon, and climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8162-8163.	3.3	8

#	ARTICLE	IF	CITATIONS
19	Selective feeding determines patterns of nutrient release by stream invertebrates. <i>Freshwater Science</i> , 2014, 33, 1093-1107.	0.9	33
20	An Ecological Network Analysis of nitrogen cycling in the Laurentian Great Lakes. <i>Ecological Modelling</i> , 2014, 293, 150-160.	1.2	25
21	Contrasting influences of stormflow and baseflow pathways on nitrogen and phosphorus export from an urban watershed. <i>Biogeochemistry</i> , 2014, 121, 209-228.	1.7	77
22	Identification of factors constraining nitrate assimilation in Lake Superior, Laurentian Great Lakes. <i>Hydrobiologia</i> , 2014, 731, 81-94.	1.0	2
23	Nitrogen transformations at the sediment-water interface across redox gradients in the Laurentian Great Lakes. <i>Hydrobiologia</i> , 2014, 731, 95-108.	1.0	63
24	Carbon and phosphorus linkages in <i>Daphnia</i> growth are determined by growth rate, not species or diet. <i>Functional Ecology</i> , 2014, 28, 1156-1165.	1.7	29
25	Human Influences on Nitrogen Removal in Lakes. <i>Science</i> , 2013, 342, 247-250.	6.0	280
26	Energy storage and C:N:P variation in a holometabolous insect (<i>Curculio davidi</i> Fairmaire) larva across a climate gradient. <i>Journal of Insect Physiology</i> , 2013, 59, 408-415.	0.9	11
27	Rates and controls of nitrification in a large oligotrophic lake. <i>Limnology and Oceanography</i> , 2013, 58, 276-286.	1.6	64
28	Ecological stoichiometry: An elementary approach using basic principles. <i>Limnology and Oceanography</i> , 2013, 58, 2219-2236.	1.6	251
29	Distributional (In)Congruence of Biodiversity-Ecosystem Functioning. <i>Advances in Ecological Research</i> , 2012, 46, 1-88.	1.4	52
30	On the "strict homeostasis" assumption in ecological stoichiometry. <i>Ecological Modelling</i> , 2012, 243, 81-88.	1.2	56
31	C:N:P stoichiometry in Lake Superior: freshwater sea as end member. <i>Inland Waters</i> , 2011, 1, 29-46.	1.1	56
32	How do consumers deal with stoichiometric constraints? Lessons from functional genomics using <i>Daphnia pulex</i> . <i>Molecular Ecology</i> , 2011, 20, 2341-2352.	2.0	51
33	Isotopic composition of nitrogen in suspended particulate matter of Lake Superior: implications for nutrient cycling and organic matter transformation. <i>Biogeochemistry</i> , 2011, 103, 1-14.	1.7	14
34	Trade-offs limiting the evolution of coloniality: ecological displacement rates used to measure small costs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 458-463.	1.2	21
35	2010 SUMMER MEETING: GLOBAL CHANGES FROM THE CENTER TO THE EDGE. <i>Limnology and Oceanography Bulletin</i> , 2010, 19, 68-69.	0.2	0
36	Diet Mixing: Do Animals Integrate Growth or Resources across Temporal Heterogeneity?. <i>American Naturalist</i> , 2010, 176, 651-663.	1.0	55

#	ARTICLE	IF	CITATIONS
37	In situ-measured primary production in Lake Superior. <i>Journal of Great Lakes Research</i> , 2010, 36, 139-149.	0.8	77
38	Genetically-based trade-offs in response to stoichiometric food quality influence competition in a keystone aquatic herbivore. <i>Ecology Letters</i> , 2009, 12, 1229-1237.	3.0	71
39	On the Phosphorus Limitation Paradigm for Lakes. <i>International Review of Hydrobiology</i> , 2008, 93, 433-445.	0.5	248
40	Nitrogen and carbon uptake dynamics in Lake Superior. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
41	Scale-dependent carbon:nitrogen:phosphorus seston stoichiometry in marine and freshwaters. <i>Limnology and Oceanography</i> , 2008, 53, 1169-1180.	1.6	238
42	ISOTOPIC EVIDENCE FOR IN-LAKE PRODUCTION OF ACCUMULATING NITRATE IN LAKE SUPERIOR. <i>Ecological Applications</i> , 2007, 17, 2323-2332.	1.8	73
43	Spatial and Temporal Variation of Ammonium in Lake Superior. <i>Journal of Great Lakes Research</i> , 2007, 33, 581.	0.8	19
44	Increasing stoichiometric imbalance in North America's largest lake: Nitrification in Lake Superior. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	76
45	Elemental stoichiometry of freshwater fishes in relation to phylogeny, allometry and ecology. <i>Journal of Fish Biology</i> , 2007, 70, 121-140.	0.7	110
46	NITRATE UTILIZATION BY PHYTOPLANKTON IN LAKE SUPERIOR IS IMPAIRED BY LOW NUTRIENT (P, Fe) AVAILABILITY AND SEASONAL LIGHT LIMITATION - A CYANOBACTERIAL BIOREPORTER STUDY. <i>Journal of Phycology</i> , 2007, 43, 475-484.	1.0	29
47	Near-infrared spectrometry (NIRS) for the analysis of seston carbon, nitrogen, and phosphorus from diverse sources. <i>Limnology and Oceanography: Methods</i> , 2006, 4, 96-104.	1.0	11
48	Bioavailable iron in oligotrophic Lake Superior assessed using biological reporters. <i>Journal of Plankton Research</i> , 2005, 27, 1033-1044.	0.8	21
49	Consideration of the bioavailability of iron in the North American Great Lakes: Development of novel approaches toward understanding iron biogeochemistry. <i>Aquatic Ecosystem Health and Management</i> , 2004, 7, 475-490.	0.3	23
50	A ONE-RESOURCE "STOICHIOMETRY". <i>Ecology</i> , 2004, 85, 1813-1816.	1.5	17
51	Phosphorus and trace metal limitation of algae and bacteria in Lake Superior. <i>Limnology and Oceanography</i> , 2004, 49, 495-507.	1.6	132
52	Ecological Stoichiometry. , 2003, , .		687
53	Life history bottlenecks in <i>Diaptomus clavipes</i> induced by phosphorus-limited algae. <i>Limnology and Oceanography</i> , 2002, 47, 1229-1233.	1.6	55
54	Frontiers of Ecology. <i>BioScience</i> , 2001, 51, 15.	2.2	145

#	ARTICLE	IF	CITATIONS
55	Diel integration of food quality by <i>Daphnia</i> : Luxury consumption by a freshwater planktonic herbivore. <i>Limnology and Oceanography</i> , 2001, 46, 410-416.	1.6	50
56	Nutritional constraints in terrestrial and freshwater food webs. <i>Nature</i> , 2000, 408, 578-580.	13.7	1,264
57	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
58	Zooplankton food quality in large lakes – growth of <i>Daphnia</i> on high P content seston from Lake Superior. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 1855-1860.	0.1	0
59	The effect of dietary nitrogen content on trophic level ¹⁵ N enrichment. <i>Limnology and Oceanography</i> , 2000, 45, 601-607.	1.6	365
60	CARBON, NITROGEN, AND PHOSPHORUS STOICHIOMETRY OF CYPRINID FISHES. <i>Ecology</i> , 2000, 81, 127-140.	1.5	138
61	Phytoplankton phosphorus limitation and food quality for <i>Bosmina</i> . <i>Limnology and Oceanography</i> , 1999, 44, 1549-1556.	1.6	62
62	Zooplankton nutrition: recent progress and a reality check. , 1998, 32, 261-279.		234
63	Stoichiometric Constraints on Food-Web Dynamics: A Whole-Lake Experiment on the Canadian Shield. <i>Ecosystems</i> , 1998, 1, 120-136.	1.6	125
64	Algal growth in warm temperate reservoirs: kinetic examination of nitrogen, temperature, light, and other nutrients. <i>Water Research</i> , 1998, 32, 3539-3548.	5.3	70
65	Demography of a natural population of <i>Daphnia retrocurva</i> in a lake with low food quality. <i>Journal of Plankton Research</i> , 1998, 20, 471-489.	0.8	28
66	Phosphorus limitation of <i>Daphnia</i> growth: Is it real?. <i>Limnology and Oceanography</i> , 1997, 42, 1436-1443.	1.6	195
67	THE ENIGMA OF FOOD CHAIN LENGTH: ABSENCE OF THEORETICAL EVIDENCE FOR DYNAMIC CONSTRAINTS. <i>Ecology</i> , 1997, 78, 2258-2262.	1.5	83
68	Modelling interactions of food quality and quantity in homeostatic consumers. <i>Freshwater Biology</i> , 1997, 38, 473-481.	1.2	175
69	Sources of nitrogen and phosphorus supporting the growth of bacteria and phytoplankton in an oligotrophic Canadian shield lake. <i>Limnology and Oceanography</i> , 1995, 40, 242-249.	1.6	39
70	Algal Nutrient Limitation and the Nutrition of Aquatic Herbivores. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1994, 25, 1-29.	6.7	563
71	hresholds for growth in <i>Daphnia magna</i> with high and low phosphorus diets. <i>Limnology and Oceanography</i> , 1994, 39, 1228-1232.	1.6	73
72	Seasonal and spatial patterns in macro- and micronutrient limitation in Joe Pool Lake, Texas. <i>Limnology and Oceanography</i> , 1994, 39, 535-550.	1.6	46

#	ARTICLE	IF	CITATIONS
73	Daphnia Growth on Varying Quality of Scenedesmus: Mineral Limitation of Zooplankton. Ecology, 1993, 74, 2351-2360.	1.5	203
74	Phytoplankton nutrient limitation and food quality for <i>Daphnia</i> . Limnology and Oceanography, 1993, 38, 857-871.	1.6	243
75	Lipid-ovary indices in food-limited Daphnia. Journal of Plankton Research, 1992, 14, 1449-1460.	0.8	28
76	Extreme cyclomorphosis in Daphnia lumholtzi. Freshwater Biology, 1992, 28, 257-262.	1.2	90
77	The Ratio of Nitrogen to Phosphorus Resupplied by Herbivores: Zooplankton and the Algal Competitive Arena. American Naturalist, 1990, 136, 209-229.	1.0	372
78	Resource competition and the autecology of pennate diatoms. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1990, 24, 518-523.	0.1	6
79	Lake Morphometry and Light in the Surface Layer. Canadian Journal of Fisheries and Aquatic Sciences, 1990, 47, 687-692.	0.7	44
80	Resource Competition During Seasonal Succession Toward Dominance by Cyanobacteria. Ecology, 1989, 70, 229-245.	1.5	68
81	The Role of Grazers in Phytoplankton Succession. Brock/Springer Series in Contemporary Bioscience, 1989, , 107-170.	0.3	237
82	Testing for Life Historical Changes in Spatial Patterns of Four Tropical Tree Species. Journal of Ecology, 1986, 74, 621.	1.9	186
83	Invasions of equilibria: tests of resource competition using two species of algae. Oecologia, 1984, 61, 197-200.	0.9	55
84	Acylated kaempferol glycosides from Aconitum (ranunculaceae). Phytochemistry, 1981, 20, 2055-2056.	1.4	11
85	Leaf flavonoids of primitive dicotyledonous angiosperms: Degeneria vitiensis and Idiospermum australiense. Biochemical Systematics and Ecology, 1981, 9, 185-187.	0.6	17
86	Flavonoid Chemistry and the Phylogenetic Relationships of the Idiospermaceae. Systematic Botany, 1980, 5, 432.	0.2	13