

Val H Smith

List of Publications by Year in descending order

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87
papers

12,276
citations

71102

41
h-index

53230

85
g-index

89
all docs

89
docs citations

89
times ranked

14396
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial biogeography: putting microorganisms on the map. <i>Nature Reviews Microbiology</i> , 2006, 4, 102-112.	28.6	2,434
2	Eutrophication of freshwater and coastal marine ecosystems a global problem. <i>Environmental Science and Pollution Research</i> , 2003, 10, 126-139.	5.3	1,604
3	Eutrophication science: where do we go from here?. <i>Trends in Ecology and Evolution</i> , 2009, 24, 201-207.	8.7	1,558
4	Eutrophication of freshwater and marine ecosystems. <i>Limnology and Oceanography</i> , 2006, 51, 351-355.	3.1	535
5	The nitrogen and phosphorus dependence of algal biomass in lakes: An empirical and theoretical analysis1. <i>Limnology and Oceanography</i> , 1982, 27, 1101-1111.	3.1	423
6	Nitrogen and phosphorus relationships to benthic algal biomass in temperate streams. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2002, 59, 865-874.	1.4	340
7	N:P ratios, light limitation, and cyanobacterial dominance in a subtropical lake impacted by non-point source nutrient pollution. <i>Environmental Pollution</i> , 2003, 122, 379-390.	7.5	330
8	Bacterial diversity patterns along a gradient of primary productivity. <i>Ecology Letters</i> , 2003, 6, 613-622.	6.4	267
9	Responses of estuarine and coastal marine phytoplankton to nitrogen and phosphorus enrichment. <i>Limnology and Oceanography</i> , 2006, 51, 377-384.	3.1	243
10	A COMPARISON OF TAXON CO-OCCURRENCE PATTERNS FOR MACRO- AND MICROORGANISMS. <i>Ecology</i> , 2007, 88, 1345-1353.	3.2	223
11	The ecology of algal biodiesel production. <i>Trends in Ecology and Evolution</i> , 2010, 25, 301-309.	8.7	221
12	Light and Nutrient Effects on the Relative Biomass of Blue-Green Algae in Lake Phytoplankton. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1986, 43, 148-153.	1.4	200
13	Nutrient dependence of primary productivity in lakes1. <i>Limnology and Oceanography</i> , 1979, 24, 1051-1064.	3.1	183
14	Propagule pools mediate community assembly and diversity-ecosystem regulation along a grassland productivity gradient. <i>Journal of Ecology</i> , 2004, 92, 435-449.	4.0	163
15	Industrial-strength ecology: trade-offs and opportunities in algal biofuel production. <i>Ecology Letters</i> , 2013, 16, 1393-1404.	6.4	155
16	Stoichiometric regulation of phytoplankton toxins. <i>Ecology Letters</i> , 2014, 17, 736-742.	6.4	144
17	Cultural Eutrophication of Inland, Estuarine, and Coastal Waters. , 1998, , 7-49.		143
18	Phytoplankton species richness scales consistently from laboratory microcosms to the world's oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4393-4396.	7.1	139

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19	Microbial diversity-“productivity relationships in aquatic ecosystems. <i>FEMS Microbiology Ecology</i> , 2007, 62, 181-186.	2.7	132
20	CONSTRAINTS ON PRIMARY PRODUCER N:P STOICHIOMETRY ALONG N:P SUPPLY RATIO GRADIENTS. <i>Ecology</i> , 2005, 86, 1894-1904.	3.2	120
21	Chlorophyll-phosphorus relations in individual lakes. Their importance to lake restoration strategies. <i>Environmental Science & Technology</i> , 1981, 15, 444-451.	10.0	114
22	EXTRINSIC AND INTRINSIC CONTROLS OF ZOOPLANKTON DIVERSITY IN LAKES. <i>Ecology</i> , 2006, 87, 433-443.	3.2	107
23	Effects of nitrogen: phosphorus supply ratios on nitrogen fixation in agricultural and pastoral ecosystems. <i>Biogeochemistry</i> , 1992, 18, 19-35.	3.5	106
24	Resource competition and within-host disease dynamics. <i>Trends in Ecology and Evolution</i> , 1996, 11, 386-389.	8.7	98
25	Applying ecological principles of crop cultivation in large-scale algal biomass production. <i>Algal Research</i> , 2014, 4, 23-34.	4.6	98
26	Nitrogen, phosphorus, and nitrogen fixation in lacustrine and estuarine ecosystems. <i>Limnology and Oceanography</i> , 1990, 35, 1852-1859.	3.1	96
27	Application of Resource-Ratio Theory to Hydrocarbon Biodegradation. <i>Environmental Science & Technology</i> , 1998, 32, 3386-3395.	10.0	96
28	Invasibility and compositional stability in a grassland community: relationships to diversity and extrinsic factors. <i>Oikos</i> , 2002, 99, 300-307.	2.7	96
29	Nitrogen: phosphorus supply ratios and phytoplankton community structure in lakes. <i>Fundamental and Applied Limnology</i> , 1999, 146, 37-53.	0.7	96
30	Development of predictive models for geosmin-related taste and odor in Kansas, USA, drinking water reservoirs. <i>Water Research</i> , 2009, 43, 2829-2840.	11.3	92
31	Patterns in nutrient limitation and chlorophyll <i>a</i> along an anthropogenic eutrophication gradient in French Mediterranean coastal lagoons. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2010, 67, 743-753.	1.4	89
32	RESPONSES OF A BACTERIAL PATHOGEN TO PHOSPHORUS LIMITATION OF ITS AQUATIC INVERTEBRATE HOST. <i>Ecology</i> , 2008, 89, 313-318.	3.2	88
33	Influence of Temperature on Exotic <i>Daphnia lumholtzi</i> and Implications for Invasion Success. <i>Journal of Plankton Research</i> , 2001, 23, 425-433.	1.8	78
34	Managing Taste and Odor Problems in a Eutrophic Drinking Water Reservoir. <i>Lake and Reservoir Management</i> , 2002, 18, 319-323.	1.3	78
35	Predator-induced phenotypic plasticity in the exotic cladoceran <i>Daphnia lumholtzi</i> . <i>Freshwater Biology</i> , 2003, 48, 1593-1602.	2.4	69
36	STOICHIOMETRY AND PLANKTONIC GRAZER COMPOSITION OVER GRADIENTS OF LIGHT, NUTRIENTS, AND PREDATION RISK. <i>Ecology</i> , 2004, 85, 2291-2301.	3.2	66

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37	Phosphorus and nitrogen loading restraints are essential for successful eutrophication control of Lake Rotorua, New Zealand. <i>Inland Waters</i> , 2016, 6, 273-283.	2.2	62
38	Host nutrition and infectious disease: an ecological view. <i>Frontiers in Ecology and the Environment</i> , 2005, 3, 268-274.	4.0	61
39	PREDICTIVE MODELS FOR THE BIOMASS OF BLUE-GREEN ALGAE IN LAKES. <i>Journal of the American Water Resources Association</i> , 1985, 21, 433-439.	2.4	58
40	Combined effects of nitrogen to phosphorus and nitrate to ammonia ratios on cyanobacterial metabolite concentrations in eutrophic Midwestern USA reservoirs. <i>Inland Waters</i> , 2016, 6, 199-210.	2.2	56
41	Effects of resource supplies on the structure and function of microbial communities. <i>Antonie Van Leeuwenhoek</i> , 2002, 81, 99-106.	1.7	50
42	Do persistent organic pollutants stimulate cyanobacterial blooms?. <i>Inland Waters</i> , 2016, 6, 124-130.	2.2	45
43	LIGHT AND NUTRIENT DEPENDENCE OF PHOTOSYNTHESIS BY ALGAE1. <i>Journal of Phycology</i> , 1983, 19, 306-313.	2.3	42
44	Designed ecosystem services: application of ecological principles in wastewater treatment engineering. <i>Frontiers in Ecology and the Environment</i> , 2004, 2, 199-206.	4.0	42
45	Invasibility of plankton food webs along a trophic state gradient. <i>Oikos</i> , 2003, 103, 191-203.	2.7	39
46	Using primary productivity as an index of coastal eutrophication: the units of measurement matter. <i>Journal of Plankton Research</i> , 2006, 29, 1-6.	1.8	39
47	Bacterial infection changes the elemental composition of <i>Daphnia magna</i> . <i>Journal of Animal Ecology</i> , 2008, 77, 1265-1272.	2.8	38
48	Effects of eutrophication on maximum algal biomass in lake and river ecosystems. <i>Inland Waters</i> , 2016, 6, 147-154.	2.2	36
49	Nitrogen deficiency, phosphorus sufficiency, and the invasion of Lake Kinneret, Israel, by the N ₂ -fixing cyanobacterium <i>Aphanizomenon ovalisporum</i> . <i>Aquatic Sciences</i> , 1999, 61, 293-306.	1.5	35
50	GRAZERS, PRODUCER STOICHIOMETRY, AND THE LIGHT : NUTRIENT HYPOTHESIS REVISITED. <i>Ecology</i> , 2007, 88, 1142-1152.	3.2	35
51	Comment: Cultural eutrophication of natural lakes in the United States is real and widespread. <i>Limnology and Oceanography</i> , 2014, 59, 2217-2225.	3.1	35
52	Succession of phytoplankton assemblages in response to large-scale reservoir operation: a case study in a tributary of the Three Gorges Reservoir, China. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 153.	2.7	35
53	Alachlor transformation patterns in aquatic field mesocosms under variable oxygen and nutrient conditions. <i>Water Research</i> , 2000, 34, 4054-4062.	11.3	33
54	Effects of non-algal turbidity on cyanobacterial biomass in seven turbid Kansas reservoirs. <i>Lake and Reservoir Management</i> , 2011, 27, 6-14.	1.3	31

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55	Estimating the probability of eÃ—ceeding elevated pH values critical to fish populations in a hypereutrophic lake. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 2262-2270.	1.4	31
56	Major evolutionary transitions of life, metabolic scaling and the number and size of mitochondria and chloroplasts. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160611.	2.6	27
57	Nitrogen deficiency, phosphorus sufficiency, and the invasion of Lake Kinneret, Israel, by the N. Aquatic Sciences, 1999, 61, 293.	1.5	26
58	Resource Competition between Host and Pathogen. BioScience, 1993, 43, 21-30.	4.9	25
59	Seed availability constrains plant species sorting along a soil fertility gradient. Journal of Ecology, 2011, 99, 473-481.	4.0	25
60	Freshwater Macroalgae as a Biofuels Feedstock: Mini-Review and Assessment of Their Bioenergy Potential. Industrial Biotechnology, 2014, 10, 212-220.	0.8	23
61	Crop diversification can contribute to disease risk control in sustainable biofuels production. Frontiers in Ecology and the Environment, 2015, 13, 561-567.	4.0	22
62	Managing nutrients and system operations for biofuel production from freshwater macroalgae. Algal Research, 2015, 11, 13-21.	4.6	22
63	Key ecological challenges in sustainable algal biofuels production. Journal of Plankton Research, 2015, 37, 671-682.	1.8	22
64	Effects of Nutrients and Non-algal Turbidity on Blue-green Algal Biomass in Four North Carolina Reservoirs. Lake and Reservoir Management, 1990, 6, 125-131.	1.3	21
65	Food web structure provides biotic resistance against plankton invasion attempts. Biological Invasions, 2007, 9, 257-267.	2.4	21
66	WATER QUALITY TRENDS IN LAKE TOHOPEKALIGA, FLORIDA, USA: RESPONSES TO WATERSHED MANAGEMENT. Journal of the American Water Resources Association, 1994, 30, 531-546.	2.4	18
67	Inedible Producers in Food Webs: Controls on Stoichiometric Food Quality and Composition of Grazers. American Naturalist, 2006, 167, 628-637.	2.1	17
68	Enhanced dissolved organic carbon production in aquatic ecosystems in response to elevated atmospheric CO2. Biogeochemistry, 2014, 118, 49-60.	3.5	17
69	Implications of resource-ratio theory for oral microbial ecology. European Journal of Oral Sciences, 1998, 106, 605-615.	1.5	16
70	Implications of Resource-Ratio Theory for Microbial Ecology. Advances in Microbial Ecology, 1993, , 1-37.	0.1	16
71	Vitamin C deficiency is an under-diagnosed contributor to degenerative disc disease in the elderly. Medical Hypotheses, 2010, 74, 695-697.	1.5	15
72	Recent progress and future challenges in algal biofuel production. F1000Research, 2016, 5, 2434.	1.6	14

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73	Herbivory enhances the diversity of primary producers in pond ecosystems. <i>Ecology</i> , 2017, 98, 48-56.	3.2	12
74	Development of small outdoor microcosms for studying contaminant transformation rates and mechanisms under various water column conditions. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 1124-1132.	4.3	11
75	A deep maximum of green sulphur bacteria (' <i>Chlorochromatium aggregatum</i> ') in a strongly stratified reservoir. <i>Freshwater Biology</i> , 2004, 49, 1337-1354.	2.4	11
76	Phosphorus is a key component of the resource demands for meat, eggs, and dairy production in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4906-7.	7.1	11
77	Resources, mortality, and disease ecology: importance of positive feedbacks between host growth rate and pathogen dynamics. <i>Israel Journal of Ecology and Evolution</i> , 2015, 61, 37-49.	0.6	10
78	Progress in Algae as a Feedstock for Bioproducts. <i>Industrial Biotechnology</i> , 2014, 10, 159-161.	0.8	9
79	Nutrient dependent effects of consumer identity and diversity on freshwater ecosystem function. <i>Freshwater Biology</i> , 2007, 53, 071002234536001-???	2.4	8
80	A 21-year record of vertically migrating subepilimnetic populations of <i>Cryptomonas</i> spp.. <i>Inland Waters</i> , 2016, 6, 173-184.	2.2	7
81	Preferences for environmental issues among environmentally-concerned citizens in six countries. <i>Environmental Conservation</i> , 2005, 32, 288-293.	1.3	6
82	Nutrient supply differentially alters the dynamics of co-infecting phytoviruses. <i>New Phytologist</i> , 2014, 204, 265-267.	7.3	5
83	Microbiology and Ecology Are Vitally Important to Premedical Curricula. <i>Evolution, Medicine and Public Health</i> , 2015, 2015, eov014.	2.5	5
84	Reply to Russell and Connell: "Eutrophication science: moving into the future". <i>Trends in Ecology and Evolution</i> , 2009, 24, 528-529.	8.7	3
85	Effects of food supply on susceptibility of <i>Culex</i> mosquitoes to the fungal biocontrol agent <i>Beauveria bassiana</i> . <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2008, 30, 509-511.	0.1	0
86	W.JOHN O'BRIEN, 1943-2009. <i>Limnology and Oceanography Bulletin</i> , 2009, 18, 98-99.	0.4	0
87	Evaluation of empirical models coupled with EUTROMOD for water quality prediction in Kansas reservoirs. <i>Inland Waters</i> , 2014, 4, 167-178.	2.2	0