Jonathan B Shurin

List of Publications by Year
in descending order

99 papers	19,367 citations	57758 44 h-index	36028 97 g-index
139 all docs	139 docs citations	139 times ranked	20953 citing authors

#	Article	IF	Citations
1	The metacommunity concept: a framework for multi-scale community ecology. Ecology Letters, 2004, 7, 601-613.	6.4	4,069
2	Global analysis of nitrogen and phosphorus limitation of primary producers in freshwater, marine and terrestrial ecosystems. Ecology Letters, 2007, 10, 1135-1142.	6.4	3,460
3	Trophic Downgrading of Planet Earth. Science, 2011, 333, 301-306.	12.6	3,030
4	A cross-ecosystem comparison of the strength of trophic cascades. Ecology Letters, 2002, 5, 785-791.	6.4	779
5	Nutrient coâ€limitation of primary producer communities. Ecology Letters, 2011, 14, 852-862.	6.4	747
6	WHAT DETERMINES THE STRENGTH OF A TROPHIC CASCADE?. Ecology, 2005, 86, 528-537.	3.2	477
7	All wet or dried up? Real differences between aquatic and terrestrial food webs. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1-9.	2.6	412
8	Evolutionary diversification in stickleback affects ecosystem functioning. Nature, 2009, 458, 1167-1170.	27.8	309
9	Consumer versus resource control of producer diversity depends on ecosystem type and producer community structure. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10904-10909.	7.1	302
10	Mechanisms, effects, and scales of dispersal in freshwater zooplankton. Limnology and Oceanography, 2004, 49, 1229-1238.	3.1	283
11	DISPERSAL LIMITATION, INVASION RESISTANCE, AND THE STRUCTURE OF POND ZOOPLANKTON COMMUNITIES. Ecology, 2000, 81, 3074-3086.	3.2	280
12	TROPHIC LEVELS AND TROPHIC TANGLES: THE PREVALENCE OF OMNIVORY IN REAL FOOD WEBS. Ecology, 2007, 88, 612-617.	3.2	277
13	Spatial autocorrelation and dispersal limitation in freshwater organisms. Oecologia, 2009, 159, 151-159.	2.0	269
14	A bioenergetic framework for the temperature dependence of trophic interactions. Ecology Letters, 2014, 17, 902-914.	6.4	268
15	Warming shifts top-down and bottom-up control of pond food web structure and function. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 3008-3017.	4.0	247
16	Mesocosm Experiments as a Tool for Ecological Climate-Change Research. Advances in Ecological Research, 2013, 48, 71-181.	2.7	237
17	Warming modifies trophic cascades and eutrophication in experimental freshwater communities. Ecology, 2012, 93, 1421-1430.	3.2	224
18	LOCAL AND REGIONAL ZOOPLANKTON SPECIES RICHNESS: A SCALE-INDEPENDENT TEST FOR SATURATION. Ecology, 2000, 81, 3062-3073.	3.2	183

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19	THE EFFECTS OF PRODUCTIVITY, HERBIVORY, AND PLANT SPECIES TURNOVER IN GRASSLAND FOOD WEBS. Ecology, 2000, 81, 2485-2497.	3.2	176
20	Scale-dependence and mechanisms of dispersal in freshwater zooplankton. Oikos, 2003, 103, 603-617.	2.7	156
21	Industrialâ€strength ecology: tradeâ€offs and opportunities in algal biofuel production. Ecology Letters, 2013, 16, 1393-1404.	6.4	155
22	INTERACTIVE EFFECTS OF PREDATION AND DISPERSAL ON ZOOPLANKTON COMMUNITIES. Ecology, 2001, 82, 3404-3416.	3.2	145
23	Herbivore metabolism and stoichiometry each constrain herbivory at different organizational scales across ecosystems. Ecology Letters, 2009, 12, 516-527.	6.4	144
24	Warming, eutrophication, and predator loss amplify subsidies between aquatic and terrestrial ecosystems. Global Change Biology, 2012, 18, 504-514.	9.5	138
25	Traitâ€based assembly and phylogenetic structure in northeast Pacific rockfish assemblages. Ecology, 2009, 90, 2444-2453.	3.2	135
26	Environmental stability and lake zooplankton diversity â€“ contrasting effects of chemical and thermal variability. Ecology Letters, 2010, 13, 453-463.	6.4	123
27	Producer Nutritional Quality Controls Ecosystem Trophic Structure. PLoS ONE, 2009, 4, e4929.	2.5	119
28	The Body Size Dependence of Trophic Cascades. American Naturalist, 2015, 185, 354-366.	2.1	110
29	Alternative stable states and regional community structure. Journal of Theoretical Biology, 2004, 227, 359-368.	1.7	102
30	The strength of trophic cascades across ecosystems: predictions from allometry and energetics. Journal of Animal Ecology, 2005, 74, 1029-1038.	2.8	92
31	ESTIMATING DISPERSAL FROM PATTERNS OF SPREAD: SPATIAL AND LOCAL CONTROL OF LAKE INVASIONS. Ecology, 2002, 83, 3306-3318.	3.2	90
32	Diversity?stability relationship varies with latitude in zooplankton. Ecology Letters, 2007, 10, 127-134.	6.4	89
33	Predator-induced reduction of freshwater carbon dioxide emissions. Nature Geoscience, 2013, 6, 191-194.	12.9	84
34	Biodiversity and species interactions: extending Lotka-Volterra community theory. Ecology Letters, 2003, 6, 944-952.	6.4	72
35	Effects of patch connectivity and heterogeneity on metacommunity structure of planktonic bacteria and viruses. ISME Journal, 2013, 7, 533-542.	9.8	71
36	How is diversity related to species turnover through time?. Oikos, 2007, 116, 957-965.	2.7	68

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37	Regional zooplankton biodiversity provides limited buffering of pond ecosystems against climate change. Journal of Animal Ecology, 2012, 81, 251-259.	2.8	60
38	When should we expect early bursts of trait evolution in comparative data? Predictions from an evolutionary food web model. Journal of Evolutionary Biology, 2012, 25, 1902-1910.	1.7	57
39	Evaluation of phenotype stability and ecological risk of a genetically engineered alga in open pond production. Algal Research, 2017, 24, 378-386.	4.6	56
40	Predator effects on herbivore and plant stability. Ecology Letters, 2005, 8, 189-194.	6.4	53
41	Cascading social-ecological costs and benefits triggered by a recovering keystone predator. Science, 2020, 368, 1243-1247.	12.6	52
42	Synchronous dynamics of zooplankton competitors prevail in temperate lake ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140633.	2.6	50
43	Current water quality guidelines across North America and Europe do not protect lakes from salinization. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	49
44	Trait diversity enhances yield in algal biofuel assemblages. Journal of Applied Ecology, 2014, 51, 603-611.	4.0	48
45	Food quality, nutrient limitation of secondary production, and the strength of trophic cascades. Oikos, 2007, 116, 1128-1143.	2.7	47
46	Diversity, Productivity, and Stability of an Industrial Microbial Ecosystem. Applied and Environmental Microbiology, 2016, 82, 2494-2505.	3.1	46
47	Phytoplankton growth and stoichiometric responses to warming, nutrient addition and grazing depend on lake productivity and cell size. Global Change Biology, 2019, 25, 2751-2762.	9.5	45
48	Niche Evolution, Trophic Structure, and Species Turnover in Model Food Webs. American Naturalist, 2009, 174, 56-67.	2.1	40
49	Density dependent effects of an exotic marine macroalga on native community diversity. Journal of Experimental Marine Biology and Ecology, 2011, 405, 111-119.	1.5	40
50	Indirect effects of sea otters on rockfish (Sebastes spp.) in giant kelp forests. Ecology, 2015, 96, 2877-2890.	3.2	38
51	Interacting Temperature, Nutrients and Zooplankton Grazing Control Phytoplankton Size-Abundance Relationships in Eight Swiss Lakes. Frontiers in Microbiology, 2019, 10, 3155.	3.5	37
52	Ecological and Evolutionary Effects of Stickleback on Community Structure. PLoS ONE, 2013, 8, e59644.	2.5	37
53	INDEPENDENT GRADIENTS OF PRODUCER, CONSUMER, AND MICROBIAL DIVERSITY IN LAKE PLANKTON. Ecology, 2007, 88, 1663-1674.	3.2	32
54	Diversity effects on invasion vary with life history stage in marine macroalgae. Oikos, 2007, 116, 1193-1203.	2.7	32

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55	Organismal traits are more important than environment for species interactions in the intertidal zone. Ecology Letters, 2010, 13, 1160-1171.	6.4	32
56	Kelp forest size alters microbial community structure and function on Vancouver Island, Canada. Ecology, 2015, 96, 862-872.	3.2	31
57	Hydrologic Connections and Overland Dispersal in An Exotic Freshwater Crustacean. Biological Invasions, 2002, 4, 431-439.	2.4	30
58	Landscape heterogeneity strengthens the relationship between Î²â€diversity and ecosystem function. Ecology, 2018, 99, 2467-2475.	3.2	28
59	Ecosystem effects of the worldâ€™s largest invasive animal. Ecology, 2020, 101, e02991.	3.2	28
60	Latitudinal variation in the response of tidepool copepods to mean and daily range in temperature. Ecology, 2015, 96, 2348-2359.	3.2	25
61	Topological approaches to food web analyses: a few modifications may improve our insights. Oikos, 2002, 99, 397-401.	2.7	24
62	Functional divergence in nitrogen uptake rates explains diversityâ€“productivity relationship in microalgal communities. Ecosphere, 2018, 9, e02228.	2.2	24
63	Assessing population recovery inside British Columbiaâ€™s Rockfish Conservation Areas with a remotely operated vehicle. Fisheries Research, 2016, 183, 165-179.	1.7	23
64	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
65	Cascading effects of freshwater salinization on plankton communities in the Sierra Nevada. Limnology and Oceanography Letters, 2023, 8, 30-37.	3.9	22
66	Environmental limits to a rapidly spreading exotic cladoceran. Ecoscience, 2005, 12, 376-385.	1.4	21
67	Lack of recreational fishing compliance may compromise effectiveness of Rockfish Conservation Areas in British Columbia. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1587-1598.	1.4	21
68	Lake salinization drives consistent losses of zooplankton abundance and diversity across coordinated mesocosm experiments. Limnology and Oceanography Letters, 2023, 8, 19-29.	3.9	21
69	Climate constrains lake community and ecosystem responses to introduced predators. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160825.	2.6	18
70	Heterogeneity in Nitrogen Sources Enhances Productivity and Nutrient Use Efficiency in Algal Polycultures. Environmental Science & Technology, 2018, 52, 3769-3776.	10.0	17
71	Contrasting Ecosystem-Effects of Morphologically Similar Copepods. PLoS ONE, 2011, 6, e26700.	2.5	15
72	Seasonal changes in phosphorus competition and allelopathy of a benthic microbial assembly facilitate prevention of cyanobacterial blooms. Environmental Microbiology, 2017, 19, 2483-2494.	3.8	15

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73	The Effects of Productivity, Herbivory, and Plant Species Turnover in Grassland Food Webs. Ecology, 2000, 81, 2485.	3.2	15
74	Replicate divergence between and within sounds in a marine fish: the copper rockfish (<scp>S</scp>ebastes caurinus). Molecular Ecology, 2014, 23, 575-590.	3.9	14
75	Recent progress and future challenges in algal biofuel production. F1000Research, 2016, 5, 2434.	1.6	14
76	Sierra Nevada mountain lake microbial communities are structured by temperature, resources and geographic location. Molecular Ecology, 2020, 29, 2080-2093.	3.9	14
77	Sources of nutrients behind recent eutrophication of Lago de Tota, a high mountain Andean lake. Aquatic Sciences, 2018, 80, 1.	1.5	13
78	Rapid evolution of thermal plasticity in mountain lake Daphnia populations. Oikos, 2019, 128, 692-700.	2.7	11
79	Early Stages of Sea-Level Rise Lead To Decreased Salt Marsh Plant Diversity through Stronger Competition in Mediterranean-Climate Marshes. PLoS ONE, 2017, 12, e0169056.	2.5	11
80	Local and Regional Zooplankton Species Richness: A Scale-Independent Test for Saturation. Ecology, 2000, 81, 3062.	3.2	11
81	Dispersal Limitation, Invasion Resistance, and the Structure of Pond Zooplankton Communities. Ecology, 2000, 81, 3074.	3.2	11
82	Warming alters food web-driven changes in the CO ₂ flux of experimental pond ecosystems. Biology Letters, 2015, 11, 20150785.	2.3	10
83	Antagonistic effects of temperature and dissolved organic carbon on fish growth in California mountain lakes. Oecologia, 2019, 189, 231-241.	2.0	10
84	Compensatory grazing by Daphnia generates a tradeâ€off between topâ€down and bottomâ€up effects across phytoplankton taxa. Ecosphere, 2018, 9, e02537.	2.2	9
85	Variation in Body Shape across Species and Populations in a Radiation of Diaptomid Copepods. PLoS ONE, 2013, 8, e68272.	2.5	9
86	Interactive Effects of Predation and Dispersal on Zooplankton Communities. Ecology, 2001, 82, 3404.	3.2	8
87	Seasonal Changes in Plankton Food Web Structure and Carbon Dioxide Flux from Southern California Reservoirs. PLoS ONE, 2015, 10, e0140464.	2.5	7
88	Mean conditions predict salt marsh plant community diversity and stability better than environmental variability. Oikos, 2017, 126, 1308-1318.	2.7	7
89	Contrasting effects of coastal upwelling on growth and recruitment of nearshore Pacific rockfishes (genus Sebastes). Canadian Journal of Fisheries and Aquatic Sciences, 2020, 77, 950-962.	1.4	7
90	Interactions among salt marsh plants vary geographically but not latitudinally along the California coast. Ecology and Evolution, 2017, 7, 6549-6558.	1.9	6

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91	Amino acid composition reveals functional diversity of zooplankton in tropical lakes related to geography, taxonomy and productivity. Oecologia, 2018, 187, 719-730.	2.0	6
92	Predators drive community reorganization during experimental range shifts. Journal of Animal Ecology, 2020, 89, 2378-2388.	2.8	6
93	Population variation affects interactions between two California salt marsh plant species more than precipitation. Oecologia, 2016, 180, 499-506.	2.0	3
94	Legacy effects of fish but not elevation influence lake ecosystem response to environmental change. Journal of Animal Ecology, 2021, 90, 662-672.	2.8	2
95	Phytoplankton functional composition determines limitation by nutrients and grazers across a lake productivity gradient. Ecosphere, 2022, 13, .	2.2	2
96	CAUSES AND CONSEQUENCES OF BIODIVERSITY LOSS ACROSS GLOBAL ECOSYSTEMS. Limnology and Oceanography Bulletin, 2012, 21, 98-99.	0.4	1
97	Population niche width is driven by within-individual niche expansion and individual specialization in introduced brook trout in mountain lakes. Oecologia, 2022, 200, 1-10.	2.0	1
98	Prey naivetÃ© alters the balance of consumptive and nonâ€consumptive predator effects and shapes trophic cascades in freshwater plankton. Oikos, 0, , .	2.7	1
99	Introgressive hybridization erodes morphological divergence between lentic and lotic habitats in an endangered minnow. Ecology and Evolution, 2021, 11, 13593-13600.	1.9	0