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	Cascading effects of freshwater salinization on plankton communities in the Sierra Nevada. Limnology and Oceanography Letters, 2023, 8, 30-37.	3.9	22
2	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
3	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
4	Phytoplankton functional composition determines limitation by nutrients and grazers across a lake productivity gradient. Ecosphere, 2022, 13, .	2.2	2
5	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
6	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
7	Introgressive hybridization erodes morphological divergence between lentic and lotic habitats in an endangered minnow. Ecology and Evolution, 2021, 11, 13593-13600.	1.9	0
8	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
9	Cascading social-ecological costs and benefits triggered by a recovering keystone predator. Science, 2020, 368, 1243-1247.	12.6	52
10	Predators drive community reorganization during experimental range shifts. Journal of Animal Ecology, 2020, 89, 2378-2388.	2.8	6
11	Sierra Nevada mountain lake microbial communities are structured by temperature, resources and geographic location. Molecular Ecology, 2020, 29, 2080-2093.	3.9	14
12	Ecosystem effects of the worldâ€™s largest invasive animal. Ecology, 2020, 101, e02991.	3.2	28
13	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
14	Antagonistic effects of temperature and dissolved organic carbon on fish growth in California mountain lakes. Oecologia, 2019, 189, 231-241.	2.0	10
15	Rapid evolution of thermal plasticity in mountain lake Daphnia populations. Oikos, 2019, 128, 692-700.	2.7	11
16	Interacting Temperature, Nutrients and Zooplankton Grazing Control Phytoplankton Size-Abundance Relationships in Eight Swiss Lakes. Frontiers in Microbiology, 2019, 10, 3155.	3.5	37
17	Heterogeneity in Nitrogen Sources Enhances Productivity and Nutrient Use Efficiency in Algal Polycultures. Environmental Science & Technology, 2018, 52, 3769-3776.	10.0	17
18	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

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19	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
20	Landscape heterogeneity strengthens the relationship between Î²â€diversity and ecosystem function. Ecology, 2018, 99, 2467-2475.	3.2	28
21	Sources of nutrients behind recent eutrophication of Lago de Tota, a high mountain Andean lake. Aquatic Sciences, 2018, 80, 1.	1.5	13
22	Functional divergence in nitrogen uptake rates explains diversityâ€“productivity relationship in microalgal communities. Ecosphere, 2018, 9, e02228.	2.2	24
23	Mean conditions predict salt marsh plant community diversity and stability better than environmental variability. Oikos, 2017, 126, 1308-1318.	2.7	7
24	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
25	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
26	Interactions among salt marsh plants vary geographically but not latitudinally along the California coast. Ecology and Evolution, 2017, 7, 6549-6558.	1.9	6
27	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
28	Recent progress and future challenges in algal biofuel production. F1000Research, 2016, 5, 2434.	1.6	14
29	Assessing population recovery inside British Columbiaâ€™s Rockfish Conservation Areas with a remotely operated vehicle. Fisheries Research, 2016, 183, 165-179.	1.7	23
30	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
31	Climate constrains lake community and ecosystem responses to introduced predators. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160825.	2.6	18
32	Population variation affects interactions between two California salt marsh plant species more than precipitation. Oecologia, 2016, 180, 499-506.	2.0	3
33	Diversity, Productivity, and Stability of an Industrial Microbial Ecosystem. Applied and Environmental Microbiology, 2016, 82, 2494-2505.	3.1	46
34	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
35	Seasonal Changes in Plankton Food Web Structure and Carbon Dioxide Flux from Southern California Reservoirs. PLoS ONE, 2015, 10, e0140464.	2.5	7
36	Indirect effects of sea otters on rockfish (Sebastes spp.) in giant kelp forests. Ecology, 2015, 96, 2877-2890.	3.2	38

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37	Warming alters food web-driven changes in the CO ₂ flux of experimental pond ecosystems. Biology Letters, 2015, 11, 20150785.	2.3	10
38	The Body Size Dependence of Trophic Cascades. American Naturalist, 2015, 185, 354-366.	2.1	110
39	Latitudinal variation in the response of tidepool copepods to mean and daily range in temperature. Ecology, 2015, 96, 2348-2359.	3.2	25
40	Kelp forest size alters microbial community structure and function on Vancouver Island, Canada. Ecology, 2015, 96, 862-872.	3.2	31
41	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
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	A bioenergetic framework for the temperature dependence of trophic interactions. Ecology Letters, 2014, 17, 902-914.	6.4	268
44	Trait diversity enhances yield in algal biofuel assemblages. Journal of Applied Ecology, 2014, 51, 603-611.	4.0	48
45	Mesocosm Experiments as a Tool for Ecological Climate-Change Research. Advances in Ecological Research, 2013, 48, 71-181.	2.7	237
46	Industrialâ€strength ecology: tradeâ€offs and opportunities in algal biofuel production. Ecology Letters, 2013, 16, 1393-1404.	6.4	155
47	Effects of patch connectivity and heterogeneity on metacommunity structure of planktonic bacteria and viruses. ISME Journal, 2013, 7, 533-542.	9.8	71
48	Predator-induced reduction of freshwater carbon dioxide emissions. Nature Geoscience, 2013, 6, 191-194.	12.9	84
49	Ecological and Evolutionary Effects of Stickleback on Community Structure. PLoS ONE, 2013, 8, e59644.	2.5	37
50	Variation in Body Shape across Species and Populations in a Radiation of Diaptomid Copepods. PLoS ONE, 2013, 8, e68272.	2.5	9
51	CAUSES AND CONSEQUENCES OF BIODIVERSITY LOSS ACROSS GLOBAL ECOSYSTEMS. Limnology and Oceanography Bulletin, 2012, 21, 98-99.	0.4	1
52	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
53	Warming modifies trophic cascades and eutrophication in experimental freshwater communities. Ecology, 2012, 93, 1421-1430.	3.2	224
54	Regional zooplankton biodiversity provides limited buffering of pond ecosystems against climate change. Journal of Animal Ecology, 2012, 81, 251-259.	2.8	60

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55	Warming, eutrophication, and predator loss amplify subsidies between aquatic and terrestrial ecosystems. Global Change Biology, 2012, 18, 504-514.	9.5	138
56	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
57	Contrasting Ecosystem-Effects of Morphologically Similar Copepods. PLoS ONE, 2011, 6, e26700.	2.5	15
58	Nutrient coâ€limitation of primary producer communities. Ecology Letters, 2011, 14, 852-862.	6.4	747
59	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
60	Trophic Downgrading of Planet Earth. Science, 2011, 333, 301-306.	12.6	3,030
61	Environmental stability and lake zooplankton diversity â€“ contrasting effects of chemical and thermal variability. Ecology Letters, 2010, 13, 453-463.	6.4	123
62	Organismal traits are more important than environment for species interactions in the intertidal zone. Ecology Letters, 2010, 13, 1160-1171.	6.4	32
63	Spatial autocorrelation and dispersal limitation in freshwater organisms. Oecologia, 2009, 159, 151-159.	2.0	269
64	Evolutionary diversification in stickleback affects ecosystem functioning. Nature, 2009, 458, 1167-1170.	27.8	309
65	Herbivore metabolism and stoichiometry each constrain herbivory at different organizational scales across ecosystems. Ecology Letters, 2009, 12, 516-527.	6.4	144
66	Niche Evolution, Trophic Structure, and Species Turnover in Model Food Webs. American Naturalist, 2009, 174, 56-67.	2.1	40
67	Traitâ€based assembly and phylogenetic structure in northeast Pacific rockfish assemblages. Ecology, 2009, 90, 2444-2453.	3.2	135
68	Producer Nutritional Quality Controls Ecosystem Trophic Structure. PLoS ONE, 2009, 4, e4929.	2.5	119
69	INDEPENDENT GRADIENTS OF PRODUCER, CONSUMER, AND MICROBIAL DIVERSITY IN LAKE PLANKTON. Ecology, 2007, 88, 1663-1674.	3.2	32
70	TROPHIC LEVELS AND TROPHIC TANGLES: THE PREVALENCE OF OMNIVORY IN REAL FOOD WEBS. Ecology, 2007, 88, 612-617.	3.2	277
71	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
72	How is diversity related to species turnover through time?. Oikos, 2007, 116, 957-965.	2.7	68

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73	Diversity effects on invasion vary with life history stage in marine macroalgae. Oikos, 2007, 116, 1193-1203.	2.7	32
74	Food quality, nutrient limitation of secondary production, and the strength of trophic cascades. Oikos, 2007, 116, 1128-1143.	2.7	47
75	Diversity?stability relationship varies with latitude in zooplankton. Ecology Letters, 2007, 10, 127-134.	6.4	89
76	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
77	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
78	Predator effects on herbivore and plant stability. Ecology Letters, 2005, 8, 189-194.	6.4	53
79	The strength of trophic cascades across ecosystems: predictions from allometry and energetics. Journal of Animal Ecology, 2005, 74, 1029-1038.	2.8	92
80	Environmental limits to a rapidly spreading exotic cladoceran. Ecoscience, 2005, 12, 376-385.	1.4	21
81	WHAT DETERMINES THE STRENGTH OF A TROPHIC CASCADE?. Ecology, 2005, 86, 528-537.	3.2	477
82	Mechanisms, effects, and scales of dispersal in freshwater zooplankton. Limnology and Oceanography, 2004, 49, 1229-1238.	3.1	283
83	The metacommunity concept: a framework for multi-scale community ecology. Ecology Letters, 2004, 7, 601-613.	6.4	4,069
84	Alternative stable states and regional community structure. Journal of Theoretical Biology, 2004, 227, 359-368.	1.7	102
85	Scale-dependence and mechanisms of dispersal in freshwater zooplankton. Oikos, 2003, 103, 603-617.	2.7	156
86	Biodiversity and species interactions: extending Lotka-Volterra community theory. Ecology Letters, 2003, 6, 944-952.	6.4	72
87	ESTIMATING DISPERSAL FROM PATTERNS OF SPREAD: SPATIAL AND LOCAL CONTROL OF LAKE INVASIONS. Ecology, 2002, 83, 3306-3318.	3.2	90
88	Topological approaches to food web analyses: a few modifications may improve our insights. Oikos, 2002, 99, 397-401.	2.7	24
89	A cross-ecosystem comparison of the strength of trophic cascades. Ecology Letters, 2002, 5, 785-791.	6.4	779
90	Hydrologic Connections and Overland Dispersal in An Exotic Freshwater Crustacean. Biological Invasions, 2002, 4, 431-439.	2.4	30

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91	INTERACTIVE EFFECTS OF PREDATION AND DISPERSAL ON ZOOPLANKTON COMMUNITIES. Ecology, 2001, 82, 3404-3416.	3.2	145
92	Interactive Effects of Predation and Dispersal on Zooplankton Communities. Ecology, 2001, 82, 3404.	3.2	8
93	DISPERSAL LIMITATION, INVASION RESISTANCE, AND THE STRUCTURE OF POND ZOOPLANKTON COMMUNITIES. Ecology, 2000, 81, 3074-3086.	3.2	280
94	THE EFFECTS OF PRODUCTIVITY, HERBIVORY, AND PLANT SPECIES TURNOVER IN GRASSLAND FOOD WEBS. Ecology, 2000, 81, 2485-2497.	3.2	176
95	LOCAL AND REGIONAL ZOOPLANKTON SPECIES RICHNESS: A SCALE-INDEPENDENT TEST FOR SATURATION. Ecology, 2000, 81, 3062-3073.	3.2	183
96	Local and Regional Zooplankton Species Richness: A Scale-Independent Test for Saturation. Ecology, 2000, 81, 3062.	3.2	11
97	Dispersal Limitation, Invasion Resistance, and the Structure of Pond Zooplankton Communities. Ecology, 2000, 81, 3074.	3.2	11
98	The Effects of Productivity, Herbivory, and Plant Species Turnover in Grassland Food Webs. Ecology, 2000, 81, 2485.	3.2	15
99	Prey naivetÃ© alters the balance of consumptive and nonâ€consumptive predator effects and shapes trophic cascades in freshwater plankton. Oikos, 0, , .	2.7	1