

Sebastian Diehl

List of Publications by Year in descending order

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73
papers

6,797
citations

71102

41
h-index

79698

73
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all docs

73
docs citations

73
times ranked

6059
citing authors

#	ARTICLE	IF	CITATIONS
1	The interaction between predation and competition: a review and synthesis. <i>Ecology Letters</i> , 2002, 5, 302-315.	6.4	596
2	Fish Predation and Benthic Community Structure: The Role of Omnivory and Habitat Complexity. <i>Ecology</i> , 1992, 73, 1646-1661.	3.2	388
3	Foraging Efficiency of Three Freshwater Fishes: Effects of Structural Complexity and Light. <i>Oikos</i> , 1988, 53, 207.	2.7	376
4	Temperature dependence of the functional response. <i>Ecology Letters</i> , 2011, 14, 914-921.	6.4	328
5	Shifts in fish communities along the productivity gradient of temperate lakes-patterns and the importance of size-structured interactions. <i>Journal of Fish Biology</i> , 1991, 38, 281-293.	1.6	302
6	EFFECTS OF POPULATION DENSITY ON INDIVIDUAL GROWTH OF BROWN TROUT IN STREAMS. <i>Ecology</i> , 1999, 80, 941-956.	3.2	296
7	Trophic Interactions in Temperate Lake Ecosystems: A Test of Food Chain Theory. <i>American Naturalist</i> , 1992, 140, 59-84.	2.1	232
8	Effects of Enrichment on Three-Level Food Chains with Omnivory. <i>American Naturalist</i> , 2000, 155, 200-218.	2.1	207
9	PHYTOPLANKTON, LIGHT, AND NUTRIENTS IN A GRADIENT OF MIXING DEPTHS: FIELD EXPERIMENTS. <i>Ecology</i> , 2002, 83, 399-411.	3.2	185
10	Copepods act as a switch between alternative trophic cascades in marine pelagic food webs. <i>Ecology Letters</i> , 2004, 7, 321-328.	6.4	166
11	Implications of scale for patterns and processes in stream ecology. <i>Austral Ecology</i> , 1998, 23, 27-40.	1.5	157
12	Spectral Niche Complementarity and Carbon Dynamics in Pelagic Ecosystems. <i>American Naturalist</i> , 2009, 174, 141-147.	2.1	156
13	Quantifying Spatial Heterogeneity in Streams. <i>Journal of the North American Benthological Society</i> , 1997, 16, 174-188.	3.1	152
14	Piscivore efficiency and refuging prey: the importance of predator search mode. <i>Oecologia</i> , 1994, 98, 344-353.	2.0	141
15	Influence of Submerged Macrophytes on Trophic Interactions Among Fish and Macroinvertebrates. <i>Ecological Studies</i> , 1998, , 24-46.	1.2	134
16	PHYTOPLANKTON, LIGHT, AND NUTRIENTS IN A GRADIENT OF MIXING DEPTHS: THEORY. <i>Ecology</i> , 2002, 83, 386-398.	3.2	134
17	Relative Consumer Sizes and the Strengths of Direct and Indirect Interactions in Omnivorous Feeding Relationships. <i>Oikos</i> , 1993, 68, 151.	2.7	133
18	Effects of Piscivore-Mediated Habitat Use on Resources, Diet, and Growth of Perch. <i>Ecology</i> , 1995, 76, 1712-1726.	3.2	133

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19	Effects of warming on predator–prey interactions – a resource-based approach and a theoretical synthesis. <i>Ecology Letters</i> , 2017, 20, 513-523.	6.4	126
20	INTRAGUILD PREY SUFFER FROM ENRICHMENT OF THEIR RESOURCES: A MICROCOSM EXPERIMENT WITH CILIATES. <i>Ecology</i> , 2001, 82, 2977-2983.	3.2	113
21	Water temperature and mixing depth affect timing and magnitude of events during spring succession of the plankton. <i>Oecologia</i> , 2006, 150, 643-654.	2.0	105
22	Adaptive omnivory and species coexistence in tri-trophic food webs. <i>Theoretical Population Biology</i> , 2005, 67, 85-99.	1.1	100
23	Direct and Indirect Effects of Omnivory in a Littoral Lake Community. <i>Ecology</i> , 1995, 76, 1727-1740.	3.2	99
24	Performance of sinking and nonsinking phytoplankton taxa in a gradient of mixing depths. <i>Limnology and Oceanography</i> , 2003, 48, 1903-1912.	3.1	99
25	Effects of Habitat Structure on Resource Availability, Diet and Growth of Benthivorous Perch, <i>Perca fluviatilis</i> . <i>Oikos</i> , 1993, 67, 403.	2.7	97
26	Water temperature and stratification depth independently shift cardinal events during plankton spring succession. <i>Global Change Biology</i> , 2010, 16, 1954-1965.	9.5	92
27	Simple rules describe bottom-up and top-down control in food webs with alternative energy pathways. <i>Ecology Letters</i> , 2012, 15, 935-946.	6.4	90
28	Light supply, plankton biomass, and seston stoichiometry in a gradient of lake mixing depths. <i>Limnology and Oceanography</i> , 2006, 51, 1898-1905.	3.1	87
29	Size-dependent foraging efficiency, cannibalism and zooplankton community structure. <i>Oecologia</i> , 2000, 123, 138-148.	2.0	85
30	Effects of Multiple, Predator-Induced Behaviors on Short-term Producer-Grazer Dynamics in Open Systems. <i>American Naturalist</i> , 2000, 156, 293-313.	2.1	83
31	THE EVOLUTION AND MAINTENANCE OF OMNIVORY: DYNAMIC CONSTRAINTS AND THE ROLE OF FOOD QUALITY. <i>Ecology</i> , 2003, 84, 2557-2567.	3.2	80
32	PRIMARY-PRODUCTIVITY GRADIENTS AND SHORT-TERM POPULATION DYNAMICS IN OPEN SYSTEMS. <i>Ecological Monographs</i> , 1997, 67, 535-553.	5.4	78
33	FLEXIBLE NUTRIENT STOICHIOMETRY MEDIATES ENVIRONMENTAL INFLUENCES ON PHYTOPLANKTON AND ITS RESOURCES. <i>Ecology</i> , 2005, 86, 2931-2945.	3.2	76
34	Influence of water-column depth and mixing on phytoplankton biomass, community composition, and nutrients. <i>Limnology and Oceanography</i> , 2008, 53, 2361-2373.	3.1	75
35	INFLUENCE OF FISH ON HABITAT CHOICE OF WATER BIRDS: A WHOLE SYSTEM EXPERIMENT. <i>Ecology</i> , 2007, 88, 2915-2925.	3.2	67
36	Resource competition across habitat boundaries: asymmetric interactions between benthic and pelagic producers. <i>Ecological Monographs</i> , 2014, 84, 287-302.	5.4	66

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37	Rapid adaptation of herbivore consumers to nutrient limitation: eco-evolutionary feedbacks to population demography and resource control. <i>Ecology Letters</i> , 2015, 18, 553-562.	6.4	66
38	Density Dependent Interactions in Lake Ecosystems: Whole Lake Perturbation Experiments. <i>Oikos</i> , 1993, 66, 193.	2.7	65
39	Spring phenological responses of marine and freshwater plankton to changing temperature and light conditions. <i>Marine Biology</i> , 2012, 159, 2491-2501.	1.5	65
40	Paradoxes of Enrichment: Effects of Increased Light versus Nutrient Supply on Pelagic Producer-Grazer Systems. <i>American Naturalist</i> , 2007, 169, E173-E191.	2.1	57
41	Food quality, nutrient limitation of secondary production, and the strength of trophic cascades. <i>Oikos</i> , 2007, 116, 1128-1143.	2.7	47
42	Daphnia-Phytoplankton Interactions in Lakes: Is There a Need for Ratio-Dependent Consumer-Resource Models?. <i>American Naturalist</i> , 1993, 142, 1052-1061.	2.1	41
43	Asymmetrical competition between aquatic primary producers in a warmer and browner world. <i>Ecology</i> , 2016, 97, 2580-2592.	3.2	39
44	Scaling population responses to spatial environmental variability in advection-dominated systems. <i>Ecology Letters</i> , 2005, 8, 933-943.	6.4	38
45	TRANSIENT DYNAMICS OF PELAGIC PRODUCER-GRAZER SYSTEMS IN A GRADIENT OF NUTRIENTS AND MIXING DEPTHS. <i>Ecology</i> , 2008, 89, 1272-1286.	3.2	38
46	Bottom-up and top-down effects of browning and warming on shallow lake food webs. <i>Global Change Biology</i> , 2019, 25, 504-521.	9.5	37
47	Physical Determinants of Phytoplankton Production, Algal Stoichiometry, and Vertical Nutrient Fluxes. <i>American Naturalist</i> , 2010, 175, E91-E104.	2.1	36
48	Strong invaders are strong defenders – implications for the resistance of invaded communities. <i>Ecology Letters</i> , 2016, 19, 487-494.	6.4	35
49	Phytoplankton, light and nutrients along a gradient of mixing depth: a field test of producer-resource theory. <i>Freshwater Biology</i> , 2003, 48, 1050-1063.	2.4	32
50	Separating effects of climatic drivers and biotic feedbacks on seasonal plankton dynamics: no sign of trophic mismatch. <i>Freshwater Biology</i> , 2014, 59, 2204-2220.	2.4	30
51	Effects of grazer immigration and nutrient enrichment on an open algae-grazer system. <i>Oikos</i> , 2005, 108, 386-400.	2.7	25
52	Ontogenetic diet shifts promote predator-mediated coexistence. <i>Ecology</i> , 2013, 94, 2886-2897.	3.2	25
53	When is a type III functional response stabilizing? Theory and practice of predicting plankton dynamics under enrichment. <i>Ecology</i> , 2015, 96, 3243-3256.	3.2	25
54	Effects of Terrestrial Organic Matter on Aquatic Primary Production as Mediated by Pelagic-Benthic Resource Fluxes. <i>Ecosystems</i> , 2018, 21, 1255-1268.	3.4	23

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55	Fitting functional response surfaces to data: a best practice guide. <i>Ecosphere</i> , 2020, 11, e03051.	2.2	23
56	Bottom-up responses of the lower oceanic food web are sensitive to copepod mortality and feeding behavior. <i>Limnology and Oceanography</i> , 2015, 60, 641-656.	3.1	22
57	Disturbance history influences the distribution of stream invertebrates by altering microhabitat parameters: a field experiment. <i>Freshwater Biology</i> , 2008, 53, 996-1011.	2.4	20
58	Determining Selection across Heterogeneous Landscapes: A Perturbation-Based Method and Its Application to Modeling Evolution in Space. <i>American Naturalist</i> , 2017, 189, 381-395.	2.1	19
59	Effects of enrichment on protist abundances and bacterial composition in simple microbial communities. <i>Oikos</i> , 2006, 114, 15-26.	2.7	17
60	Effects of water temperature and mixed layer depth on zooplankton body size. <i>Marine Biology</i> , 2012, 159, 2431-2440.	1.5	17
61	Evolution of resource specialisation in competitive metacommunities. <i>Ecology Letters</i> , 2019, 22, 1746-1756.	6.4	13
62	Interannual variation in seasonal diatom sedimentation reveals the importance of late winter processes and their timing for sediment signal formation. <i>Limnology and Oceanography</i> , 2019, 64, 1186-1199.	3.1	13
63	Spatial Scaling of Consumer-Resource Interactions in Advection-Dominated Systems. <i>American Naturalist</i> , 2006, 168, 358-372.	2.1	11
64	Patchy bed disturbance and fish predation independently influence the distribution of stream invertebrates and algae. <i>Journal of Animal Ecology</i> , 2011, 80, 603-614.	2.8	11
65	Inverse relationship of epilithic algae and pelagic phosphorus in unproductive lakes: Roles of N_{fixers} and light. <i>Freshwater Biology</i> , 2018, 63, 662-675.	2.4	11
66	Local and continental-scale controls of the onset of spring phytoplankton blooms: Conclusions from a proxy-based model. <i>Global Change Biology</i> , 2021, 27, 1976-1990.	9.5	11
67	Carbon sequestration and stoichiometry of motile and nonmotile green algae. <i>Limnology and Oceanography</i> , 2009, 54, 1746-1752.	3.1	10
68	Trophic transfer of biodiversity effects: functional equivalence of prey diversity and enrichment?. <i>Ecology and Evolution</i> , 2012, 2, 3110-3122.	1.9	9
69	An experimental demonstration of the critical depth principle. <i>ICES Journal of Marine Science</i> , 2015, 72, 2051-2060.	2.5	8
70	Stoichiometric mismatch causes a warming-induced regime shift in experimental plankton communities. <i>Ecology</i> , 2022, 103, e3674.	3.2	8
71	Phytoplankton, Light, and Nutrients in a Gradient of Mixing Depths: Field Experiments. <i>Ecology</i> , 2002, 83, 399.	3.2	7
72	Phytoplankton, Light, and Nutrients in a Gradient of Mixing Depths: Theory. <i>Ecology</i> , 2002, 83, 386.	3.2	5

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73	Food quality, nutrient limitation of secondary production, and the strength of trophic cascades. <i>Oikos</i> , 2007, 116, 1128-1143.	2.7	4