Helmut Hillebrand

List of Publications by Year
in descending order

216	28,798	9264 74	5539 163
papers	citations	h-index	g-index

220	220	220	25981
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	BIOVOLUME CALCULATION FOR PELAGIC AND BENTHIC MICROALGAE. Journal of Phycology, 1999, 35, 403-424.	2.3	2,928
3	On the Generality of the Latitudinal Diversity Gradient. American Naturalist, 2004, 163, 192-211.	2.1	1,598
4	The distance decay of similarity in ecological communities. Ecography, 2007, 30, 3-12.	4.5	829
5	Nutrient coâ€limitation of primary producer communities. Ecology Letters, 2011, 14, 852-862.	6.4	747
6	CONSEQUENCES OF DOMINANCE: A REVIEW OF EVENNESS EFFECTS ON LOCAL AND REGIONAL ECOSYSTEM PROCESSES. Ecology, 2008, 89, 1510-1520.	3.2	720
7	Herbivores and nutrients control grassland plant diversity via light limitation. Nature, 2014, 508, 517-520.	27.8	669
8	Empirical approaches to metacommunities: a review and comparison with theory. Trends in Ecology and Evolution, 2011, 26, 482-491.	8.7	577
9	Integrative modelling reveals mechanisms linking productivity and plant species richness. Nature, 2016, 529, 390-393.	27.8	564
10	Biodiversity in a complex world: consolidation and progress in functional biodiversity research. Ecology Letters, 2009, 12, 1405-1419.	6.4	477
11	The imprint of the geographical, evolutionary and ecological context on species-area relationships. Ecology Letters, 2006, 9, 215-227.	6.4	470
12	Productivity Is a Poor Predictor of Plant Species Richness. Science, 2011, 333, 1750-1753.	12.6	463
13	MULTIPLE FUNCTIONS INCREASE THE IMPORTANCE OF BIODIVERSITY FOR OVERALL ECOSYSTEM FUNCTIONING. Ecology, 2008, 89, 1223-1231.	3.2	455
14	Biodiversity change is uncoupled from species richness trends: Consequences for conservation and monitoring. Journal of Applied Ecology, 2018, 55, 169-184.	4.0	435
15	Consumer versus resource control of species diversity and ecosystem functioning. Nature, 2002, 417, 848-851.	27.8	417
16	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
17	Eutrophication weakens stabilizing effects of diversity in natural grasslands. Nature, 2014, 508, 521-525.	27.8	409
18	Navigating the complexity of ecological stability. Ecology Letters, 2016, 19, 1172-1185.	6.4	401

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19	Addition of multiple limiting resources reduces grassland diversity. Nature, 2016, 537, 93-96.	27.8	355
20	A crossâ€system synthesis of consumer and nutrient resource control on producer biomass. Ecology Letters, 2008, 11, 740-755.	6.4	334
21	Biodiversity effects on ecosystem functioning: emerging issues and their experimental test in aquatic environments. Oikos, 2004, 104, 423-436.	2.7	320
22	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. Basic and Applied Ecology, 2017, 23, 1-73.	2.7	307
23	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
24	Threshold elemental ratios of carbon and phosphorus in aquatic consumers. Ecology Letters, 2006, 9, 774-779.	6.4	284
25	Spatial autocorrelation and dispersal limitation in freshwater organisms. Oecologia, 2009, 159, 151-159.	2.0	269
26	The nutrient stoichiometry of benthic microalgal growth: Redfield proportions are optimal. Limnology and Oceanography, 1999, 44, 440-446.	3.1	238
27	A MULTIVARIATE ANALYSIS OF BETA DIVERSITY ACROSS ORGANISMS AND ENVIRONMENTS. Ecology, 2007, 88, 2830-2838.	3.2	230
28	More diverse plant communities have higher functioning over time due to turnover in complementary dominant species. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17034-17039.	7.1	227
29	Separating the influence of resource â€˜availabilityâ€™ from resource â€˜imbalanceâ€™ on productivityâ€“diversity relationships. Ecology Letters, 2009, 12, 475-487.	6.4	198
30	Differences in species richness patterns between unicellular and multicellular organisms. Oecologia, 2001, 126, 114-124.	2.0	182
31	A quantitative analysis of temporal turnover in aquatic species assemblages across ecosystems. Ecology, 2010, 91, 508-517.	3.2	181
32	Consumer effects decline with prey diversity. Ecology Letters, 2004, 7, 192-201.	6.4	180
33	Species richness changes across two trophic levels simultaneously affect prey and consumer biomass. Ecology Letters, 2005, 8, 696-703.	6.4	177
34	Regional and local impact on species diversity â€“ from pattern to processes. Oecologia, 2002, 132, 479-491.	2.0	175
35	Top-down versus bottom-up control of autotrophic biomassâ€”a meta-analysis on experiments with periphyton. Journal of the North American Benthological Society, 2002, 21, 349-369.	3.1	174
36	Strength, slope and variability of marine latitudinal gradients. Marine Ecology - Progress Series, 2004, 273, 251-267.	1.9	173

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37	Effect of grazing and nutrient supply on periphyton biomass and nutrient stoichiometry in habitats of different productivity. Limnology and Oceanography, 2001, 46, 1881-1898.	3.1	172
38	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. Nature Ecology and Evolution, 2018, 2, 50-56.	7.8	172
39	Decomposing multiple dimensions of stability in global change experiments. Ecology Letters, 2018, 21, 21-30.	6.4	167
40	Lifeâ€history constraints in grassland plant species: a growthâ€defence tradeâ€off is the norm. Ecology Letters, 2013, 16, 513-521.	6.4	165
41	Effects of climate-driven temperature changes on the diversity of freshwater macroinvertebrates. Oecologia, 2007, 151, 93-103.	2.0	158
42	Biodiversityâ€“multifunctionality relationships depend on identity and number of measured functions. Nature Ecology and Evolution, 2018, 2, 44-49.	7.8	155
43	Reciprocal subsidies between freshwater and terrestrial ecosystems structure consumer resource dynamics. Ecology, 2012, 93, 1173-1182.	3.2	152
44	Thresholds for ecological responses to global change do not emerge from empirical data. Nature Ecology and Evolution, 2020, 4, 1502-1509.	7.8	151
45	Marine microbenthic community structure regulated by nitrogen loading and grazing pressure. Marine Ecology - Progress Series, 2000, 204, 27-38.	1.9	151
46	Biodiversity and ecosystem functioning in dynamic landscapes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150267.	4.0	149
47	Herbivore metabolism and stoichiometry each constrain herbivory at different organizational scales across ecosystems. Ecology Letters, 2009, 12, 516-527.	6.4	144
48	Anthropogenic nitrogen deposition predicts local grassland primary production worldwide. Ecology, 2015, 96, 1459-1465.	3.2	143
49	Plant speciesâ€™ origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. Nature Communications, 2015, 6, 7710.	12.8	143
50	Goldman revisited: Fasterâ€growing phytoplankton has lower N : P and lower stoichiometric flexibility. Limnology and Oceanography, 2013, 58, 2076-2088.	3.1	136
51	Cyanobacteria dominance influences resource use efficiency and community turnover in phytoplankton and zooplankton communities. Ecology Letters, 2014, 17, 464-474.	6.4	128
52	Toward More Integrated Ecosystem Research in Aquatic and Terrestrial Environments. BioScience, 2015, 65, 174-182.	4.9	124
53	CONTROL OF MICROBENTHIC COMMUNITIES BY GRAZING AND NUTRIENT SUPPLY. Ecology, 2002, 83, 2205-2219.	3.2	117
54	Diversity of benthic microalgae in response to colonization time and eutrophication. Aquatic Botany, 2000, 67, 221-236.	1.6	116

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55	Dispersal frequency affects local biomass production by controlling local diversity. Ecology Letters, 2006, 9, 652-662.	6.4	110
56	Signatures of nutrient limitation and coâ€limitation: responses of autotroph internal nutrient concentrations to nitrogen and phosphorus additions. Oikos, 2015, 124, 113-121.	2.7	109
57	Warming leads to higher species turnover in a coastal ecosystem. Global Change Biology, 2010, 16, 1181-1193.	9.5	106
58	Invited review: Direct and indirect effects in herbivore - periphyton interactions. Archiv FÃ¼r Hydrobiologie, 2004, 159, 433-453.	1.1	100
59	Global change drives modern plankton communities away from the pre-industrial state. Nature, 2019, 570, 372-375.	27.8	96
60	A multitrophic perspective on biodiversityâ€“ecosystem functioning research. Advances in Ecological Research, 2019, 61, 1-54.	2.7	95
61	Body size determines the strength of the latitudinal diversity gradient. Ecography, 2001, 24, 251-256.	4.5	94
62	METAâ€ANALYSIS OF GRAZER CONTROL OF PERIPHYTON BIOMASS ACROSS AQUATIC ECOSYSTEMS¹. Journal of Phycology, 2009, 45, 798-806.	2.3	94
63	Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (<scp>CAFE</scp>) approach. Ecology Letters, 2018, 21, 167-180.	6.4	94
64	Metaâ€analysis on pulse disturbances reveals differences in functional and compositional recovery across ecosystems. Ecology Letters, 2020, 23, 575-585.	6.4	94
65	A trait-based experimental approach to understand the mechanisms underlying biodiversityâ€“ecosystem functioning relationships. Basic and Applied Ecology, 2014, 15, 229-240.	2.7	91
66	Competition between benthic cyanobacteria and diatoms as influenced by different grain sizes and temperatures. Marine Ecology - Progress Series, 1999, 187, 77-87.	1.9	91
67	The drivers of biogeochemistry in beach ecosystems: A cross-shore transect from the dunes to the low-water line. Marine Chemistry, 2017, 190, 35-50.	2.3	90
68	Diversity?stability relationship varies with latitude in zooplankton. Ecology Letters, 2007, 10, 127-134.	6.4	89
69	Effects of biodiversity strengthen over time as ecosystem functioning declines at low and increases at high biodiversity. Ecosphere, 2016, 7, e01619.	2.2	87
70	Effects of experimental warming on biodiversity depend on ecosystem type and local species composition. Oikos, 2017, 126, 8-17.	2.7	87
71	BIOTIC HABITAT COMPLEXITY CONTROLS SPECIES DIVERSITY AND NUTRIENT EFFECTS ON NET BIOMASS PRODUCTION. Ecology, 2006, 87, 246-254.	3.2	84
72	Stoichiometric variation in C:N, C:P, and N:P ratios of littoral benthic invertebrates. Journal of the North American Benthological Society, 2005, 24, 256-269.	3.1	83

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73	Body size determines the strength of the latitudinal diversity gradient. Ecography, 2001, 24, 251-256.	4.5	78
74	Spatial and temporal variation in the biomass and nutrient status of epilithic algae in Lake Erken, Sweden. Freshwater Biology, 2002, 47, 1191-1215.	2.4	78
75	A Second Class of Peroxidases Linked to the Trypanothione Metabolism. Journal of Biological Chemistry, 2003, 278, 6809-6815.	3.4	77
76	Opposing effects of grazing and nutrients on diversity. Oikos, 2003, 100, 592-600.	2.7	76
77	Combining marine macroecology and palaeoecology in understanding biodiversity: microfossils as a model. Biological Reviews, 2017, 92, 199-215.	10.4	76
78	Response of epilithic microphytobenthos of the Western Baltic Sea to in situ experiments with nutrient enrichment. Marine Ecology - Progress Series, 1997, 160, 35-46.	1.9	75
79	Nutritional indicators and their uses in ecology. Ecology Letters, 2013, 16, 535-544.	6.4	74
80	Geographic patterns of diversity in streams are predicted by a multivariate model of disturbance and productivity. Journal of Ecology, 2006, 94, 609-618.	4.0	73
81	Plant Diversity Impacts Decomposition and Herbivory via Changes in Aboveground Arthropods. PLoS ONE, 2014, 9, e106529.	2.5	73
82	North Atlantic Oscillation signatures in aquatic and terrestrial ecosystems-a meta-analysis. Global Change Biology, 2002, 8, 203-212.	9.5	71
83	Low algal carbon content and its effect on the C : P stoichiometry of periphyton. Freshwater Biology, 2005, 50, 1800-1807.	2.4	71
84	Biodiversity Effects on Plant Stoichiometry. PLoS ONE, 2013, 8, e58179.	2.5	71
85	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. Global Change Biology, 2013, 19, 3677-3687.	9.5	70
86	Warming and oligotrophication cause shifts in freshwater phytoplankton communities. Global Change Biology, 2018, 24, 4532-4543.	9.5	69
87	Effects of macrograzers and light on periphyton stoichiometry. Oikos, 2004, 106, 93-104.	2.7	65
88	Regressions of local on regional diversity do not reflect the importance of local interactions or saturation of local diversity. Oikos, 2005, 110, 195-198.	2.7	65
89	Light regime and consumer control of autotrophic biomass. Journal of Ecology, 2005, 93, 758-769.	4.0	64
90	Responses of primary productivity to increased temperature and phytoplankton diversity. Journal of Sea Research, 2012, 72, 87-93.	1.6	59

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91	Biodiversityâ€“ecosystem functioning relationships in fish communities: biomass is related to evenness and the environment, not to species richness. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191189.	2.6	58
92	Temperature mean and variance alter phytoplankton biomass and biodiversity in a longâ€term microcosm experiment. Oikos, 2011, 120, 922-933.	2.7	57
93	Effect of grazing and water column nutrient supply on biomass and nutrient content of sediment microalgae. Aquatic Botany, 2002, 72, 143-159.	1.6	55
94	Role of nutrient supply in grazerâ€“periphyton interactions: reciprocal influences of periphyton and grazer nutrient stoichiometry. Journal of the North American Benthological Society, 2006, 25, 632-642.	3.1	55
95	Out of the shadows: multiple nutrient limitations drive relationships among biomass, light and plant diversity. Functional Ecology, 2017, 31, 1839-1846.	3.6	55
96	â€œUnifyingâ€•the Concept of Resource Use Efficiency in Ecology. Frontiers in Ecology and Evolution, 2019, 6, .	2.2	55
97	Hutchinson Reversed, or Why There Need to Be So Many Species. Advances in Ecological Research, 2010, , 1-43.	2.7	53
98	Environmental and trait variability constrain community structure and the biodiversityâ€productivity relationship. Ecology, 2016, 97, 1463-1474.	3.2	53
99	Bridging Food Webs, Ecosystem Metabolism, and Biogeochemistry Using Ecological Stoichiometry Theory. Frontiers in Microbiology, 2017, 8, 1298.	3.5	53
100	The relationship between species richness and evenness: a meta-analysis of studies across aquatic ecosystems. Oecologia, 2012, 169, 803-809.	2.0	52
101	Ecological stoichiometry of indirect grazer effects on periphyton nutrient content. Oecologia, 2008, 155, 619-630.	2.0	50
102	Global biogeography of autotroph chemistry: is insolation a driving force?. Oikos, 2013, 122, 1121-1130.	2.7	50
103	Predation on mutualists can reduce the strength of trophic cascades. Ecology Letters, 2006, 9, 1173-1178.	6.4	48
104	Functional trait dissimilarity drives both species complementarity and competitive disparity. Functional Ecology, 2017, 31, 2320-2329.	3.6	48
105	Nutrient loading associated with agriculture land use dampens the importance of consumerâ€mediated niche construction. Ecology Letters, 2013, 16, 1115-1125.	6.4	47
106	Think ratio! A stoichiometric view on biodiversityâ€“ecosystem functioning research. Basic and Applied Ecology, 2014, 15, 465-474.	2.7	46
107	Nitrogenous nutrition of the potentially toxic diatom Pseudonitzschia pungens f. multiseries Hasle. Journal of Plankton Research, 1996, 18, 295-301.	1.8	45
108	Biodiversity Effects on Aquatic Ecosystem Functioning â€“ Maturation of a New Paradigm. International Review of Hydrobiology, 2008, 93, 550-564.	0.9	45

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109	A critique for metaâ€analyses and the productivityâ€“ diversity relationship. Ecology, 2010, 91, 2545-2549.	3.2	45
110	The influence of balanced and imbalanced resource supply on biodiversityâ€“functioning relationship across ecosystems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150283.	4.0	43
111	GRAZING REGULATES THE SPATIAL VARIABILITY OF PERIPHYTON BIOMASS. Ecology, 2008, 89, 165-173.	3.2	41
112	Temperature effects on phytoplankton diversity â€" The zooplankton link. Journal of Sea Research, 2014, 85, 359-364.	1.6	41
113	Importance of mixotrophic bacterivory can be predicted by light and loss rates. Oikos, 2017, 126, 713-722.	2.7	41
114	EFFECTS OF GRAZER RICHNESS AND COMPOSITION ON ALGAL BIOMASS IN A CLOSED AND OPEN MARINE SYSTEM. Ecology, 2007, 88, 178-187.	3.2	40
115	Phytoplankton responses to temperature increases are constrained by abiotic conditions and community composition. Oecologia, 2016, 182, 815-827.	2.0	38
116	Spatial heterogeneity in species composition constrains plant community responses to herbivory and fertilisation. Ecology Letters, 2018, 21, 1364-1371.	6.4	38
117	Species traits and species diversity affect community stability in a multiple stressor framework. Aquatic Biology, 2012, 17, 197-209.	1.4	38
118	Dominance by a canopy forming seaweed modifies resource and consumer control of bloomâ€forming macroalgae. Oikos, 2007, 116, 1211-1219.	2.7	34
119	Structural equation modeling approach to the diversity-productivity relationship of Wadden Sea phytoplankton. Marine Ecology - Progress Series, 2015, 523, 31-40.	1.9	34
120	Longâ€term effects of plant diversity and composition on plant stoichiometry. Oikos, 2016, 125, 613-621.	2.7	33
121	Interspecific competition alters leaf stoichiometry in 20 grassland species. Oikos, 2018, 127, 903-914.	2.7	33
122	A crossâ€system metaâ€analysis reveals coupled predation effects on prey biomass and diversity. Oikos, 2015, 124, 1427-1435.	2.7	32
123	Plant diversity and functional groups affect Si and Ca pools in aboveground biomass of grassland systems. Oecologia, 2016, 182, 277-286.	2.0	32
124	Effects of Total Resources, Resource Ratios, and Species Richness on Algal Productivity and Evenness at Both Metacommunity and Local Scales. PLoS ONE, 2011, 6, e21972.	2.5	32
125	Cell size as driver and sentinel of phytoplankton community structure and functioning. Functional Ecology, 2022, 36, 276-293.	3.6	32
126	Resource Stoichiometry and Consumers Control the Biodiversity-Productivity Relationship in Pelagic Metacommunities. American Naturalist, 2011, 178, 171-181.	2.1	31

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127	Low statistical power and overestimated anthropogenic impacts, exacerbated by publication bias, dominate field studies in global change biology. Global Change Biology, 2022, 28, 969-989.	9.5	31
128	Response to Comments on â€œProductivity Is a Poor Predictor of Plant Species Richnessâ€• Science, 2012, 335, 1441-1441.	12.6	30
129	The functional role of planktonic mixotrophs in altering seston stoichiometry. Aquatic Microbial Ecology, 2017, 79, 235-245.	1.8	30
130	Multiple vs. single phytoplankton species alter stoichiometry of trophic interaction with zooplankton. Ecology, 2015, 96, 3075-3089.	3.2	29
131	The effect of grazing and nutrient supply on periphyton associated bacteria. FEMS Microbiology Ecology, 2005, 52, 31-41.	2.7	28
132	Functional and structural stability are linked in phytoplankton metacommunities of different connectivity. Ecography, 2017, 40, 719-732.	4.5	28
133	Climate Change: Warming Impacts on Marine Biodiversity. , 2018, , 353-373.		28
134	Phytoplankton community responses to temperature fluctuations under different nutrient concentrations and stoichiometry. Ecology, 2019, 100, e02834.	3.2	28
135	Effect of continuous nutrient enrichment on microalgae colonizing hard substrates. , 2000, 426, 185-192.		26
136	Spatial variation of grazer effects on epilithic meiofauna and algae. Journal of the North American Benthological Society, 2007, 26, 78-91.	3.1	26
137	Microbial food web structure affects bottomâ€up effects and elemental stoichiometry in periphyton assemblages. Limnology and Oceanography, 2009, 54, 2183-2200.	3.1	26
138	Diversity and community biomass depend on dispersal and disturbance in microalgal communities. Hydrobiologia, 2010, 653, 65-78.	2.0	26
139	Rapid reorganization of global biodiversity. Science, 2019, 366, 308-309.	12.6	26
140	The distance decay of similarity in ecological communities. Ecography, 2007, 30, 3-12.	4.5	26
141	Control of epibenthic ciliate communities by grazers and nutrients. Aquatic Microbial Ecology, 2004, 35, 153-162.	1.8	25
142	Running to stand still: temperature effects on species richness, species turnover, and functional community dynamics. Marine Biology, 2012, 159, 2415-2422.	1.5	25
143	Reporting standards in experimental studies. Ecology Letters, 2013, 16, 1419-1420.	6.4	24
144	Plant diversity effects on pollinating and herbivorous insects can be linked to plant stoichiometry. Basic and Applied Ecology, 2014, 15, 169-178.	2.7	24

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145	Disciplinary diversity in marine sciences: the urgent case for an integration of research. ICES Journal of Marine Science, 2018, 75, 502-509.	2.5	24
146	Biodiversity and aquatic food webs. , 2005, , 184-198.		22
147	Competition between pelagic and benthic microalgae for phosphorus and light. Aquatic Sciences, 2006, 68, 425-433.	1.5	21
148	Community dominance by a canopy species controls the relationship between macroalgal production and species richness. Limnology and Oceanography, 2006, 51, 1813-1818.	3.1	21
149	The importance of phytoplankton trait variability in spring bloom formation. ICES Journal of Marine Science, 2015, 72, 1908-1915.	2.5	21
150	Experimental salt marsh islands: A model system for novel metacommunity experiments. Estuarine, Coastal and Shelf Science, 2017, 198, 288-298.	2.1	21
151	Krill vs salps: dominance shift from krill to salps is associated with higher dissolved N:P ratios. Scientific Reports, 2020, 10, 5911.	3.3	21
152	Metaâ€analysis results are unlikely to be biased by differences in variance and replication between ecological lab and field studies. Oikos, 2014, 123, 794-799.	2.7	20
153	Planktotrons: A novel indoor mesocosm facility for aquatic biodiversity and food web research. Limnology and Oceanography: Methods, 2017, 15, 663-677.	2.0	20
154	Cascading predator control interacts with productivity to determine the trophic level of biomass accumulation in a benthic food web. Ecological Research, 2012, 27, 203-210.	1.5	18
155	Dispersal restricts local biomass but promotes the recovery of metacommunities after temperature stress. Oikos, 2014, 123, 762-768.	2.7	18
156	Stability of marine phytoplankton communities facing stress related to global change: Interactive effects of heat waves and turbidity. Journal of Experimental Marine Biology and Ecology, 2017, 497, 219-229.	1.5	18
157	Effects of snail grazers and light on the benthic microbial food web in periphyton communities. Aquatic Microbial Ecology, 2010, 61, 163-178.	1.8	17
158	Temperature mediates competitive exclusion and diversity in benthic microalgae under different N:P stoichiometry. Ecological Research, 2011, 26, 533-539.	1.5	17
159	Multitrophic diversity effects depend on consumer specialization and speciesâ€specific growth and grazing rates. Oikos, 2014, 123, 912-922.	2.7	17
160	The body-size structure of macrobenthos changes predictably along gradients of hydrodynamic stress and organic enrichment. Marine Biology, 2015, 162, 675-685.	1.5	17
161	Disentangling distance decay of similarity from richness gradients: response to Baselga (2007). Ecography, 2007, 30, 842-844.	4.5	16
162	Comment on â€œWorldwide evidence of a unimodal relationship between productivity and plant species richnessâ€. Science, 2016, 351, 457-457.	12.6	16

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163	The exponentially fed batch culture as a reliable alternative to conventional chemostats. Limnology and Oceanography: Methods, 2014, 12, 432-440.	2.0	15
164	Functional trait dimensions of trophic metacommunities. Ecography, 2021, 44, 1486-1500.	4.5	15
165	Competition between benthic and pelagic microalgae for phosphorus and light â€“ long-term experiments using artificial substrates. Aquatic Sciences, 2009, 71, 238-249.	1.5	14
166	Environmental Impactsâ€”Lake Ecosystems. Regional Climate Studies, 2016, , 315-340.	1.2	14
167	Shorter Food Chain Length in Ancient Lakes: Evidence from a Global Synthesis. PLoS ONE, 2012, 7, e37856.	2.5	14
168	Consumer diversity indirectly changes prey nutrient content. Marine Ecology - Progress Series, 2009, 380, 33-41.	1.9	14
169	Failures to disagree are essential for environmental science to effectively influence policy development. Ecology Letters, 2022, , .	6.4	14
170	Food web complexity affects stoichiometric and trophic interactions. Oikos, 2006, 114, 117-125.	2.7	13
171	Ejectisins: tough and tiny polypeptides are a major component of cryptophycean ejectisomes. Protoplasma, 2013, 250, 551-563.	2.1	13
172	Can monitoring data contribute to the biodiversity-ecosystem function debate? Evaluating data from a highly dynamic ecosystem. Biodiversity and Conservation, 2014, 23, 405-419.	2.6	13
173	Environmental filtering and taxonomic relatedness underlie the species richnessâ€“evenness relationship. Hydrobiologia, 2017, 787, 243-253.	2.0	13
174	Isolation and characterisation of the trichocysts of the dinophyte Prorocentrum micans. Protoplasma, 2015, 252, 271-281.	2.1	12
175	Stoichiometric constraints on phytoplankton resource use efficiency in monocultures and mixtures. Limnology and Oceanography, 2020, 65, 1734-1746.	3.1	12
176	Consumer Diversity Enhances Secondary Production by Complementarity Effects in Experimental Ciliate Assemblages. Estuaries and Coasts, 2008, 31, 152-162.	2.2	11
177	Integrative research perspectives on marine conservation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190444.	4.0	11
178	Compositional and functional consequences of environmental change in Belgian farmland ponds. Freshwater Biology, 2018, 63, 581-596.	2.4	10
179	Drivers of global preâ€industrial patterns of species turnover in planktonic foraminifera. Ecography, 2022, 2022, .	4.5	10
180	Metaecosystem Dynamics of Marine Phytoplankton Alters Resource Use Efficiency along Stoichiometric Gradients. American Naturalist, 2019, 193, 35-50.	2.1	9

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181	Scale dependence of temporal biodiversity change in modern and fossil marine plankton. Global Ecology and Biogeography, 2020, 29, 1008-1019.	5.8	9
182	Environmental conditions of a salt-marsh biodiversity experiment on the island of Spiekeroog (Germany). Earth System Science Data, 2018, 10, 1843-1858.	9.9	9
183	Effect of continuous nutrient enrichment on microalgae colonizing hard substrates. , 2000, , 185-192.		9
184	Environmental stoichiometry mediates phytoplankton diversity effects on communities' resource use efficiency and biomass. Journal of Ecology, 2022, 110, 430-442.	4.0	9
185	Nutritional mode and specialization alter protist consumer diversity effects on prey assemblages. Aquatic Microbial Ecology, 2012, 66, 257-269.	1.8	8
186	Invasion by mobile aquatic consumers enhances secondary production and increases top-down control of lower trophic levels. Oecologia, 2012, 168, 175-186.	2.0	8
187	Non-Redfield, nutrient synergy and flexible internal elemental stoichiometry in a marine bacterium. FEMS Microbiology Ecology, 2017, 93, .	2.7	8
188	Scale Both Confounds and Informs Characterization of Species Coexistence in Empirical Systems. American Naturalist, 2019, 194, 794-806.	2.1	8
189	The comparison of the performance of two screening strategies identifying newly-diagnosed HIV during pregnancy. European Journal of Public Health, 2011, 21, 632-637.	0.3	7
190	Effect of (a)synchronous light fluctuation on diversity, functional and structural stability of a marine phytoplankton metacommunity. Oecologia, 2014, 176, 497-510.	2.0	7
191	Dominance of the non-indigenous diatom Mediopyxis helysia in Wadden Sea phytoplankton can be linked to broad tolerance to different Si and N supplies. Journal of Sea Research, 2015, 95, 36-44.	1.6	7
192	The marine bacterium Phaeobacter inhibens secures external ammonium by rapid buildup of intracellular nitrogen stocks. FEMS Microbiology Ecology, 2018, 94, .	2.7	7
193	Functionally reversible impacts of disturbances on lake food webs linked to spatial and seasonal dependencies. Ecology, 2021, 102, e03283.	3.2	7
194	Integrating multiple dimensions of ecological stability into a vulnerability framework. Journal of Ecology, 2022, 110, 374-386.	4.0	7
195	Heterotrophic flagellates increase microalgal biomass yield. Journal of Applied Phycology, 2015, 27, 87-96.	2.8	6
196	Genetic variation of a foundation rockweed species affects associated communities. Ecology, 2017, 98, 2940-2951.	3.2	6
197	The impact of climate warming on species diversity across scales: Lessons from experimental metaâ€ecosystems. Global Ecology and Biogeography, 2021, 30, 1545-1554.	5.8	6
198	Cross-continental analysis of coastal biodiversity change. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190452.	4.0	6

#	Article	IF	Citations
199	Effects of temperature on the interaction between phytoplankton communities and benthic filter feeders. Fundamental and Applied Limnology, 2015, 187, 87-100.	0.7	5
200	Prey diversity effects on ecosystem functioning depend on consumer identity and prey composition. Oecologia, 2017, 184, 653-661.	2.0	5
201	Altered complementary feeding strategies of the consumers Hydrobia ulvae and Idotea emarginata via passive selectivity. Helgoland Marine Research, 2009, 63, 189-197.	1.3	4
202	Sea surface phytoplankton community response to nutrient and light changes. Marine Biology, 2020, 167, 1.	1.5	4
203	Historical contingency and productivity effects on food-chain length. Communications Biology, 2019, 2, 40.	4.4	4
204	Temporal declines in Wadden Sea phytoplankton cell volumes observed within and across species. Limnology and Oceanography, 2022, 67, 468-481.	3.1	4
205	Further investigations on the polypeptides and reconstitution of prasinophycean ejectisomes. European Journal of Protistology, 2014, 50, 248-257.	1.5	2
206	Effects of nutrient depletion on ejectisomes of cryptophytes. Nova Hedwigia, 2016, 102, 77-87.	0.4	2
207	On the morphology and predatory behavior of the dinoflagellate Oxyrrhis marina exposed to reduced salinity. European Journal of Protistology, 2019, 68, 37-47.	1.5	2
208	Multiple zooplankton species alter the stoichiometric interactions between producer and consumer levels. Marine Biology, 2019, 166, 1.	1.5	2
209	Elevation gradient affects the development of macrozoobenthic communities in the Wadden Sea: A field experiment with artificial islands. Journal of Experimental Marine Biology and Ecology, 2020, 523, 151268.	1.5	2
210	Effect of consumer loss on resource removal depends on speciesâ€specific traits. Ecosphere, 2017, 8, e01742.	2.2	1
211	Dominance. , 2019, , 302-308.		1
212	Reply to: Empirical pressure-response relations can benefit assessment of safe operating spaces. Nature Ecology and Evolution, 2021, 5, 1080-1081.	7.8	1
213	Diversity of unicellular aquatic organisms scaled to body size. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2002, 28, 352-354.	0.1	0
214	Understorey benthic microalgae and their consumers depend on habitat complexity and light in a microtidal coastal ecosystem. Aquatic Botany, 2011, 95, 200-206.	1.6	0
215	Diversity and community biomass depend on dispersal and disturbance in microalgal communities. , 2010, , 65-78.		0
216	Dominance by a canopy forming seaweed modifies resource and consumer control of bloom-forming macroalgae. Oikos, 2007, 116, 1211-1219.	2.7	0