Michel Loreau

List of Publications by Year
in descending order

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		8181	4342
237	33,982	76	173
papers	citations	h-index	g-index

246	246	246	27490
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biodiversity loss and its impact on humanity. Nature, 2012, 486, 59-67.	27.8	4,969
2	Partitioning selection and complementarity in biodiversity experiments. Nature, 2001, 412, 72-76.	27.8	2,493
3	High plant diversity is needed to maintain ecosystem services. Nature, 2011, 477, 199-202.	27.8	1,195
4	Impacts of plant diversity on biomass production increase through time because of species complementarity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18123-18128.	7.1	1,175
5	Biodiversity increases the resistance of ecosystem productivity to climate extremes. Nature, 2015, 526, 574-577.	27.8	1,032
6	Community Patterns in Sourceâ€Sink Metacommunities. American Naturalist, 2003, 162, 544-557.	2.1	827
7	The functional role of biodiversity in ecosystems: incorporating trophic complexity. Ecology Letters, 2007, 10, 522-538.	6.4	808
8	Biodiversity as spatial insurance in heterogeneous landscapes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12765-12770.	7.1	805
9	Biodiversity and ecosystem stability: a synthesis of underlying mechanisms. Ecology Letters, 2013, 16, 106-115.	6.4	780
10	Biodiversity and ecosystem functioning: recent theoretical advances. Oikos, 2000, 91, 3-17.	2.7	767
11	Meta-ecosystems: a theoretical framework for a spatial ecosystem ecology. Ecology Letters, 2003, 6, 673-679.	6.4	527
12	Species Synchrony and Its Drivers: Neutral and Nonneutral Community Dynamics in Fluctuating Environments. American Naturalist, 2008, 172, E48-E66.	2.1	488
13	Linking the influence and dependence of people on biodiversity across scales. Nature, 2017, 546, 65-72.	27.8	474
14	Functional Diversity of Plantâ€“Pollinator Interaction Webs Enhances the Persistence of Plant Communities. PLoS Biology, 2005, 4, e1.	5.6	438
15	Are communities saturated? On the relationship between alpha, beta and gamma diversity. Ecology Letters, 2000, 3, 73-76.	6.4	413
16	The Causes and Consequences of Compensatory Dynamics in Ecological Communities. Annual Review of Ecology, Evolution, and Systematics, 2009, 40, 393-414.	8.3	388
17	Separating Sampling and Other Effects in Biodiversity Experiments. Oikos, 1998, 82, 600.	2.7	382
18	From selection to complementarity: shifts in the causes of biodiversityâ€“productivity relationships in a long-term biodiversity experiment. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 871-876.	2.6	375

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19	Linking biodiversity and ecosystems: towards a unifying ecological theory. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 49-60.	4.0	349
20	Does functional redundancy exist?. Oikos, 2004, 104, 606-611.	2.7	340
21	Species Richness and the Temporal Stability of Biomass Production: A New Analysis of Recent Biodiversity Experiments. American Naturalist, 2014, 183, 1-12.	2.1	309
22	From Populations to Ecosystems. , 2010, , .		298
23	Evolutionary emergence of size-structured food webs. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5761-5766.	7.1	297
24	Scalingâ€up biodiversityâ€ecosystem functioning research. Ecology Letters, 2020, 23, 757-776.	6.4	270
25	Functional diversity governs ecosystem response to nutrient enrichment. Nature, 2000, 405, 340-344.	27.8	264
26	Overyielding in grassland communities: testing the sampling effect hypothesis with replicated biodiversity experiments. Ecology Letters, 2002, 5, 502-511.	6.4	258
27	Food-web constraints on biodiversity-ecosystem functioning relationships. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14949-14954.	7.1	253
28	Predicting ecosystem stability from community composition and biodiversity. Ecology Letters, 2013, 16, 617-625.	6.4	251
29	Global Human Footprint on the Linkage between Biodiversity and Ecosystem Functioning in Reef Fishes. PLoS Biology, 2011, 9, e1000606.	5.6	249
30	Global distribution of earthworm diversity. Science, 2019, 366, 480-485.	12.6	248
31	GRAZING OPTIMIZATION AND NUTRIENT CYCLING: WHEN DO HERBIVORES ENHANCE PLANT PRODUCTION?. Ecology, 1998, 79, 2242-2252.	3.2	246
32	REVIEW: Predictive ecology in a changing world. Journal of Applied Ecology, 2015, 52, 1293-1310.	4.0	237
33	Subsidy hypothesis and strength of trophic cascades across ecosystems. Ecology Letters, 2008, 11, 1147-1156.	6.4	235
34	The predator-prey power law: Biomass scaling across terrestrial and aquatic biomes. Science, 2015, 349, aac6284.	12.6	235
35	Estimating local biodiversity change: a critique of papers claiming no net loss of local diversity. Ecology, 2016, 97, 1949-1960.	3.2	224
36	Biodiversity and ecosystem stability across scales in metacommunities. Ecology Letters, 2016, 19, 510-518.	6.4	213

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37	Contributions of a global network of tree diversity experiments to sustainable forest plantations. Ambio, 2016, 45, 29-41.	5.5	203
38	Comparing species interaction networks along environmental gradients. Biological Reviews, 2018, 93, 785-800.	10.4	203
39	Ecosystem stability in space: Î±, Î² and Î³ variability. Ecology Letters, 2014, 17, 891-901.	6.4	200
40	Plant species richness and community productivity: why the mechanism that promotes coexistence matters. Ecology Letters, 2002, 5, 56-65.	6.4	199
41	Does complementary resource use enhance ecosystem functioning? A model of light competition in plant communities. Ecology Letters, 2007, 10, 54-62.	6.4	189
42	Tropical tree diversity enhances light capture through crown plasticity and spatial and temporal niche differences. Ecology, 2014, 95, 2479-2492.	3.2	178
43	Microbial diversity, producerâ€“decomposer interactions and ecosystem processes: a theoretical model. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 303-309.	2.6	170
44	Plant diversity effects on grassland productivity are robust to both nutrient enrichment and drought. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150277.	4.0	169
45	Biodiversity effects and transgressive overyielding. Journal of Plant Ecology, 2008, 1, 95-102.	2.3	160
46	Quantifying effects of biodiversity on ecosystem functioning across times and places. Ecology Letters, 2018, 21, 763-778.	6.4	157
47	Trophic Interactions and the Relationship between Species Diversity and Ecosystem Stability. American Naturalist, 2005, 166, E95-E114.	2.1	154
48	Local facilitation, bistability and transitions in arid ecosystems. Theoretical Population Biology, 2007, 71, 367-379.	1.1	149
49	Metacommunity theory explains the emergence of food web complexity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19293-19298.	7.1	149
50	Soil fauna: key to new carbon models. Soil, 2016, 2, 565-582.	4.9	149
51	The biodiversityâ€dependent ecosystem service debt. Ecology Letters, 2015, 18, 119-134.	6.4	146
52	Generic assembly patterns in complex ecological communities. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2156-2161.	7.1	141
53	Diversity without representation. Nature, 2006, 442, 245-246.	27.8	139
54	Nitrogen enrichment weakens ecosystem stability through decreased species asynchrony and population stability in a temperate grassland. Global Change Biology, 2016, 22, 1445-1455.	9.5	139

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55	Connecting models, data, and concepts to understand fragmentation's ecosystemâ€wide effects. Ecography, 2017, 40, 1-8.	4.5	137
56	Consumers as Maximizers of Matter and Energy Flow in Ecosystems. American Naturalist, 1995, 145, 22-42.	2.1	136
57	Diversity spurs diversification in ecological communities. Nature Communications, 2017, 8, 15810.	12.8	133
58	Is local biodiversity declining or not? A summary of the debate over analysis of species richness time trends. Biological Conservation, 2018, 219, 175-183.	4.1	127
59	Source and sink dynamics in metaâ€ecosystems. Ecology, 2010, 91, 2172-2184.	3.2	122
60	The relationship between biodiversity and ecosystem functioning in food webs. Ecological Research, 2006, 21, 17-25.	1.5	121
61	Spatial Flows and the Regulation of Ecosystems. American Naturalist, 2004, 163, 606-615.	2.1	112
62	ECOLOGICAL STOICHIOMETRY, PRIMARY PRODUCERâ€“DECOMPOSER INTERACTIONS, AND ECOSYSTEM PERSISTENCE. Ecology, 2001, 82, 3069-3082.	3.2	110
63	Ecological and evolutionary consequences of niche construction for its agent. Ecology Letters, 2008, 11, 1072-1081.	6.4	110
64	Ecological constraints increase the climatic debt in forests. Nature Communications, 2016, 7, 12643.	12.8	108
65	Multispecies forest plantations outyield monocultures across a broad range of conditions. Science, 2022, 376, 865-868.	12.6	107
66	Biodiversity as insurance: from concept to measurement and application. Biological Reviews, 2021, 96, 2333-2354.	10.4	101
67	Nontrophic Interactions, Biodiversity, and Ecosystem Functioning: An Interaction Web Model. American Naturalist, 2008, 171, 91-106.	2.1	98
68	Niche construction in the light of niche theory. Ecology Letters, 2011, 14, 82-90.	6.4	97
69	Towards an integrative understanding of soil biodiversity. Biological Reviews, 2020, 95, 350-364.	10.4	97
70	Understanding the value of plant diversity for ecosystem functioning through niche theory. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160536.	2.6	96
71	Linking scaling laws across eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21616-21622.	7.1	95
72	Organizing principles for vegetation dynamics. Nature Plants, 2020, 6, 444-453.	9.3	95

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73	Understanding mutualism when there is adaptation to the partner. Journal of Ecology, 2005, 93, 305-314.	4.0	94
74	Phenotypic Diversity and Stability of Ecosystem Processes. Theoretical Population Biology, 1999, 56, 29-47.	1.1	90
75	Stability and synchrony across ecological hierarchies in heterogeneous metacommunities: linking theory to data. Ecography, 2019, 42, 1200-1211.	4.5	89
76	RECONCILING EMPIRICAL ECOLOGY WITH NEUTRAL COMMUNITY MODELS. Ecology, 2006, 87, 1370-1377.	3.2	87
77	A mathematical synthesis of niche and neutral theories in community ecology. Journal of Theoretical Biology, 2011, 269, 150-165.	1.7	87
78	Cascading extinctions and ecosystem functioning: contrasting effects of diversity depending on food web structure. Oikos, 2007, 116, 163-173.	2.7	85
79	Unifying sources and sinks in ecology andÂ<scp>E</scp>arth sciences. Biological Reviews, 2013, 88, 365-379.	10.4	85
80	Ecosystem development explained by competition within and between material cycles. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 33-38.	2.6	83
81	The strength of the biodiversityâ€“ecosystem function relationship depends on spatial scale. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180038.	2.6	82
82	Immigration and local competition in herbaceous plant communities: a three-year seed-sowing experiment. Oikos, 2004, 104, 77-90.	2.7	79
83	Effects of newly planted hedges on ground-beetle diversity (Coleoptera, Carabidae) in an agricultural landscape. Ecography, 1999, 22, 87-97.	4.5	78
84	Title is missing!. Landscape Ecology, 2001, 16, 17-32.	4.2	77
85	Biodiversityâ€“productivity relationships are key to nature-based climate solutions. Nature Climate Change, 2021, 11, 543-550.	18.8	77
86	Measuring resilience is essential to understand it. Nature Sustainability, 2019, 2, 895-897.	23.7	76
87	Nitrogen addition does not reduce the role of spatial asynchrony in stabilising grassland communities. Ecology Letters, 2019, 22, 563-571.	6.4	75
88	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. Nature Communications, 2020, 11, 5375.	12.8	75
89	Relationships among ecological traits of wild bee communities along gradients of habitat amount and fragmentation. Ecography, 2017, 40, 85-97.	4.5	74
90	Climate variability decreases species richness and community stability in a temperate grassland. Oecologia, 2018, 188, 183-192.	2.0	74

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91	Aboveâ€•and belowâ€ground biodiversity jointly regulate temperate forest multifunctionality along a localâ€scale environmental gradient. Journal of Ecology, 2020, 108, 2012-2024.	4.0	74
92	Biotic homogenization destabilizes ecosystem functioning by decreasing spatial asynchrony. Ecology, 2021, 102, e03332.	3.2	74
93	Emergence and maintenance of biodiversity in an evolutionary food-web model. Theoretical Ecology, 2011, 4, 467-478.	1.0	73
94	Aboveground carbon storage is driven by functional trait composition and stand structural attributes rather than biodiversity in temperate mixed forests recovering from disturbances. Annals of Forest Science, 2018, 75, 1.	2.0	72
95	Mowing exacerbates the loss of ecosystem stability under nitrogen enrichment in a temperate grassland. Functional Ecology, 2017, 31, 1637-1646.	3.6	71
96	Light partitioning in experimental grass communities. Oikos, 2008, 117, 1351-1361.	2.7	70
97	Dynamics of Reciprocal Pulsed Subsidies in Local and Meta-Ecosystems. Ecosystems, 2012, 15, 48-59.	3.4	69
98	Pyramids and cascades: a synthesis of food chain functioning and stability. Ecology Letters, 2019, 22, 405-419.	6.4	68
99	Plant-herbivore interactions and ecological stoichiometry: when do herbivores determine plant nutrient limitation?. Ecology Letters, 2001, 4, 196-206.	6.4	67
100	Evolution of body size in food webs: does the energetic equivalence rule hold?. Ecology Letters, 2006, 9, 171-178.	6.4	67
101	Intra- and interspecific density-dependent dispersal in an aquatic prey?predator system. Journal of Animal Ecology, 2007, 76, 552-558.	2.8	66
102	Patch Dynamics, Persistence, and Species Coexistence in Metaecosystems. American Naturalist, 2010, 176, 289-302.	2.1	66
103	Multiple abiotic and biotic pathways shape biomass demographic processes in temperate forests. Ecology, 2019, 100, e02650.	3.2	66
104	Material Cycling and the Stability of Ecosystems. American Naturalist, 1994, 143, 508-513.	2.1	62
105	An invariability-area relationship sheds new light on the spatial scaling of ecological stability. Nature Communications, 2017, 8, 15211.	12.8	61
106	Evolution of Local Facilitation in Arid Ecosystems. American Naturalist, 2008, 172, E1-E17.	2.1	60
107	A patch-dynamic framework for food web metacommunities. Theoretical Ecology, 2010, 3, 223-237.	1.0	59
108	Plantâ€“herbivoreâ€“decomposer stoichiometric mismatches and nutrient cycling in ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122453.	2.6	59

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109	Global evidence of positive biodiversity effects on spatial ecosystem stability in natural grasslands. Nature Communications, 2019, 10, 3207.	12.8	59
110	Humanâ€“nature connectedness as a pathway to sustainability: A global metaâ€analysis. Conservation Letters, 2022, 15, e12852.	5.7	59
111	Niche and fitness differences relate the maintenance of diversity to ecosystem function: comment. Ecology, 2012, 93, 1482-1487.	3.2	58
112	The inherent multidimensionality of temporal variability: how common and rare species shape stability patterns. Ecology Letters, 2019, 22, 1557-1567.	6.4	57
113	Consistently positive effect of species diversity on ecosystem, but not population, temporal stability. Ecology Letters, 2021, 24, 2256-2266.	6.4	56
114	Relationships beetween the regional distribution of carabid beetles (Coleoptera, Carabidae) and the abundance of their potential prey. Acta Oecologica, 1997, 18, 465-483.	1.1	55
115	Limitations of entropy maximization in ecology. Oikos, 2008, 117, 1700-1710.	2.7	52
116	General relationships between consumer dispersal, resource dispersal and metacommunity diversity. Ecology Letters, 2014, 17, 175-184.	6.4	52
117	Superorganisms or loose collections of species? A unifying theory of community patterns along environmental gradients. Ecology Letters, 2019, 22, 1243-1252.	6.4	52
118	The mechanics of predatorâ€“prey interactions: First principles of physics predict predatorâ€–prey size ratios. Functional Ecology, 2019, 33, 323-334.	3.6	52
119	Nutrient enrichment and food chains: can evolution buffer top-down control?. Theoretical Population Biology, 2004, 65, 285-298.	1.1	50
120	Habitat choice meets thermal specialization: Competition with specialists may drive suboptimal habitat preferences in generalists. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11988-11993.	7.1	50
121	Meta-ecosystem dynamics and functioning on finite spatial networks. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132094.	2.6	49
122	Abiotic and biotic determinants of coarse woody productivity in temperate mixed forests. Science of the Total Environment, 2018, 630, 422-431.	8.0	49
123	Expert perspectives on global biodiversity loss and its drivers and impacts on people. Frontiers in Ecology and the Environment, 2023, 21, 94-103.	4.0	49
124	Multiple metrics of diversity have different effects on temperate forest functioning over succession. Oecologia, 2016, 182, 1175-1185.	2.0	48
125	Do we have to choose between feeding the human population and conserving nature? Modelling the global dependence of people on ecosystem services. Science of the Total Environment, 2018, 634, 1463-1474.	8.0	48
126	Density-dependent dispersal and relative dispersal affect the stability of predatorâ€“prey metacommunities. Journal of Theoretical Biology, 2010, 266, 458-469.	1.7	47

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127	Spatial ecological networks: planning for sustainability in the long-term. Current Opinion in Environmental Sustainability, 2017, 29, 187-197.	6.3	46
128	Biodiversity and Ecosystem Functioning: The Mystery of the Deep Sea. Current Biology, 2008, 18, R126-R128.	3.9	45
129	Biodiversity as spatial insurance: the effects of habitat fragmentation and dispersal on ecosystem functioning. , 2009, , 134-146.		45
130	Environmental responses, not species interactions, determine synchrony of dominant species in semiarid grasslands. Ecology, 2017, 98, 971-981.	3.2	43
131	Consequences of Plant-Herbivore Coevolution on the Dynamics and Functioning of Ecosystems. Journal of Theoretical Biology, 2002, 217, 369-381.	1.7	42
132	Consumerâ€mediated recycling and cascading trophic interactions. Ecology, 2010, 91, 2162-2171.	3.2	42
133	Biodiversity, productivity, and the spatial insurance hypothesis revisited. Journal of Theoretical Biology, 2015, 380, 426-435.	1.7	41
134	Dispersal and metapopulation stability. PeerJ, 2015, 3, e1295.	2.0	41
135	A food web perspective on large herbivore community limitation. Ecography, 2011, 34, 196-202.	4.5	40
136	Robustness of mutualistic networks under phenological change and habitat destruction. Oikos, 2015, 124, 22-32.	2.7	38
137	The Impact of Spatial and Temporal Dimensions of Disturbances on Ecosystem Stability. Frontiers in Ecology and Evolution, 2018, 6, 224.	2.2	38
138	Tradeâ€offs in the provisioning and stability of ecosystem services in agroecosystems. Ecological Applications, 2019, 29, e01853.	3.8	38
139	How complementarity and selection affect the relationship between ecosystem functioning and stability. Ecology, 2021, 102, e03347.	3.2	38
140	Spatial structure and the survival of an inferior competitor: a theoretical model of neighbourhood competition in plants. Ecological Modelling, 2002, 158, 1-19.	2.5	37
141	Nutrient flows between ecosystems can destabilize simple food chains. Journal of Theoretical Biology, 2010, 266, 162-174.	1.7	37
142	Effects of biodiversity on the functioning of ecosystems: a summary of 164 experimental manipulations of species richness. Ecology, 2009, 90, 854-854.	3.2	36
143	Emergence of nutrient coâ€limitation through movement in stoichiometric metaâ€ecosystems. Ecology Letters, 2015, 18, 1163-1173.	6.4	36
144	When microbes and consumers determine the limiting nutrient of autotrophs: a theoretical analysis. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 487-497.	2.6	35

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145	Succession in mixed boreal forest of Russia: Markov models and non-Markov effects. Ecological Modelling, 2001, 142, 25-38.	2.5	34
146	Differential responses of sizeâ€based functional groups to bottomâ€“up and topâ€“down perturbations in pelagic food webs: a metaâ€analysis. Oikos, 2014, 123, 1291-1300.	2.7	34
147	Coexistence of multiple food chains in a heterogeneous environment: Interactions among community structure, ecosystem functioning, and nutrient dynamics. Mathematical Biosciences, 1996, 134, 153-188.	1.9	33
148	Scale dependence of the diversityâ€“stability relationship in a temperate grassland. Journal of Ecology, 2018, 106, 1277-1285.	4.0	33
149	Ecological autocatalysis: a central principle in ecosystem organization?. Ecological Monographs, 2018, 88, 304-319.	5.4	32
150	Nutrient-induced shifts of dominant species reduce ecosystem stability via increases in species synchrony and population variability. Science of the Total Environment, 2019, 692, 441-449.	8.0	32
151	General statistical scaling laws for stability in ecological systems. Ecology Letters, 2021, 24, 1474-1486.	6.4	32
152	Towards a more biologically realistic use of Droop's equations to model growth under multiple nutrient limitation. Oikos, 2010, 119, 897-907.	2.7	31
153	The three regimes of spatial recovery. Ecology, 2019, 100, e02586.	3.2	31
154	Reconciling biodiversity conservation, food production and farmersâ€™ demand in agricultural landscapes. Ecological Modelling, 2020, 416, 108889.	2.5	31
155	The relationship between the spatial scaling of biodiversity and ecosystem stability. Global Ecology and Biogeography, 2018, 27, 439-449.	5.8	30
156	Divergent aboveâ€and belowâ€ground biodiversity pathways mediate disturbance impacts on temperate forest multifunctionality. Global Change Biology, 2021, 27, 2883-2894.	9.5	30
157	Time scale of resource dynamics and coexistence through time partitioning. Theoretical Population Biology, 1992, 41, 401-412.	1.1	29
158	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. Scientific Data, 2021, 8, 136.	5.3	29
159	Incisor size and community structure in rodents: Two tests of the role of competition. Acta Oecologica, 1999, 20, 93-101.	1.1	28
160	Dynamics of a three-species food chain model with adaptive traits. Chaos, Solitons and Fractals, 2009, 41, 2812-2819.	5.1	27
161	Modeling the direct and indirect effects of copper on phytoplanktonâ€“zooplankton interactions. Aquatic Toxicology, 2015, 162, 73-81.	4.0	27
162	Annual activity and life cycles of carabid beetles in two forest communities. Ecography, 1985, 8, 228-235.	4.5	25

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163	Beyond shading: Litter production by neighbors contributes to overyielding in tropical trees. Ecology, 2013, 94, 941-952.	3.2	25
164	(A bit) Earlier or later is always better: Phenological shifts in consumerâ€“resource interactions. Theoretical Ecology, 2014, 7, 149-162.	1.0	25
165	An ecological theory of changing human population dynamics. People and Nature, 2019, 1, 31-43.	3.7	25
166	Agricultural land use and the sustainability of social-ecological systems. Ecological Modelling, 2020, 437, 109312.	2.5	25
167	How community adaptation affects biodiversityâ€“ecosystem functioning relationships. Ecology Letters, 2020, 23, 1263-1275.	6.4	25
168	Foraging activity of the carabid beetle Pterostichus melanarius Ill. in field margin habitats. Agriculture, Ecosystems and Environment, 2002, 89, 253-259.	5.3	24
169	Evolution of Dispersal in a Predator-Prey Metacommunity. American Naturalist, 2012, 179, 204-216.	2.1	24
170	Scaling up biodiversityâ€“ecosystem functioning relationships: the role of environmental heterogeneity in space and time. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202779.	2.6	24
171	Temporal stability of aboveground biomass is governed by species asynchrony in temperate forests. Ecological Indicators, 2019, 107, 105661.	6.3	23
172	Disentangling local, metapopulation, and crossâ€community sources of stabilization and asynchrony in metacommunities. Ecosphere, 2020, 11, e03078.	2.2	23
173	Activity and satiation state in Pterostichus melanarius : an experiment in different agricultural habitats. Ecological Entomology, 2001, 26, 235-244.	2.2	22
174	Stability trophic cascades in food chains. Royal Society Open Science, 2018, 5, 180995.	2.4	22
175	How ecological feedbacks between human population and land cover influence sustainability. PLoS Computational Biology, 2018, 14, e1006389.	3.2	22
176	Coexistence of temporally segregated competitors in a cyclic environment. Theoretical Population Biology, 1989, 36, 181-201.	1.1	21
177	Interactions between algae and the microbial loop in experimental microcosms. Oikos, 2001, 95, 231-238.	2.7	21
178	Seasonal patterns in species diversity across biomes. Ecology, 2019, 100, e02627.	3.2	21
179	Thermal mismatches in biological rates determine trophic control and biomass distribution under warming. Global Change Biology, 2021, 27, 257-269.	9.5	21
180	How to estimate complementarity and selection effects from an incomplete sample of species. Methods in Ecology and Evolution, 2019, 10, 2141-2152.	5.2	20

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181	Sourceâ€“Sink Dynamics and the Coexistence of Species on a Single Resource. Theoretical Population Biology, 1997, 51, 79-93.	1.1	19
182	Context-dependency of tree species diversity, trait composition and stand structural attributes regulate temperate forest multifunctionality. Science of the Total Environment, 2021, 757, 143724.	8.0	19
183	Universal scaling of robustness of ecosystem services to species loss. Nature Communications, 2021, 12, 5167.	12.8	19
184	Fingerprints of High-Dimensional Coexistence in Complex Ecosystems. Physical Review X, 2021, 11, .	8.9	18
185	GROWTH AND DEMOGRAPHY OF POPULATIONS OF BIOMPHALARIA PFEIFFERI (GASTROPODA, PLANORBIDAE) IN THE LABORATORY. Journal of Molluscan Studies, 1987, 53, 171-177.	1.2	17
186	Biodiversity Science Evolves. Science, 2005, 310, 943-943.	12.6	17
187	Trivial and nonâ€trivial applications of entropy maximization in ecology: a reply to Shipley. Oikos, 2009, 118, 1270-1278.	2.7	17
188	Comparison of Iso-enzyme Electrophoresis and Gut Content Examination for Determining the Natural Diet of the Groundbeetle Species Abax ater (Coleoptera: Carabidae). Entomologia Generalis, 1995, 19, 253-259.	3.1	17
189	Do not downplay biodiversity loss. Nature, 2022, 601, E27-E28.	27.8	17
190	Size-related effects of physical factors on phytoplankton communities. Ecological Modelling, 2016, 323, 41-50.	2.5	16
191	The hidden role of multiâ€trophic interactions in driving diversityâ€“productivity relationships. Ecology Letters, 2022, 25, 405-415.	6.4	16
192	POPULATION DYNAMICS OF THE FRESHWATER SNAIL BIOMPHALARIA PFEIFFERI IN EASTERN ZAÃRE. Journal of Molluscan Studies, 1987, 53, 249-265.	1.2	15
193	Nutrient-limited food webs with up to three trophic levels: Feasibility, stability, assembly rules, and effects of nutrient enrichment. Theoretical Population Biology, 2006, 69, 48-66.	1.1	15
194	Ecotone formation through ecological niche construction: the role of biodiversity and species interactions. Ecography, 2020, 43, 714-723.	4.5	15
195	Regulation of Redfield ratios in the deep ocean. Global Biogeochemical Cycles, 2015, 29, 254-266.	4.9	14
196	A Graphical-Mechanistic Approach to Spatial Resource Competition. American Naturalist, 2015, 185, E1-E13.	2.1	14
197	Transcending boundaries in biodiversity research. Trends in Ecology and Evolution, 1998, 13, 134-135.	8.7	13
198	Not even wrong: Comment by Loreau and Hector. Ecology, 2019, 100, e02794.	3.2	13

#	Article	IF	Citations
199	Defector clustering is linked to cooperation in a pathogenic bacterium. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20172001.	2.6	12
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