

Jonathan M Chase

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128 papers	14,750 citations	52 h-index	121 g-index
170 ext. papers	17,904 ext. citations	8.7 avg, IF	7.24 L-index

#	Paper	IF	Citations
128	Navigating the multiple meanings of βdiversity: a roadmap for the practicing ecologist. <i>Ecology Letters</i> , 2011 , 14, 19-28	10	1495
127	Ecological Niches 2003 ,		1259
126	Disentangling the importance of ecological niches from stochastic processes across scales. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 2351-63	5.8	784
125	Community assembly: when should history matter?. <i>Oecologia</i> , 2003 , 136, 489-98	2.9	673
124	Drought mediates the importance of stochastic community assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17430-4	11.5	642
123	Stochastic community assembly causes higher biodiversity in more productive environments. <i>Science</i> , 2010 , 328, 1388-91	33.3	604
122	Spatial scale dictates the productivity-biodiversity relationship. <i>Nature</i> , 2002 , 416, 427-30	50.4	602
121	Trade-offs in community ecology: linking spatial scales and species coexistence. <i>Ecology Letters</i> , 2004 , 7, 69-80	10	550
120	Using null models to disentangle variation in community dissimilarity from variation in βdiversity. <i>Ecosphere</i> , 2011 , 2, art24	3.1	517
119	The interaction between predation and competition: a review and synthesis. <i>Ecology Letters</i> , 2002 , 5, 302-315	10	512
118	Disentangling the drivers of βdiversity along latitudinal and elevational gradients. <i>Science</i> , 2011 , 333, 1755-8	33.3	482
117	Meta-analysis reveals declines in terrestrial but increases in freshwater insect abundances. <i>Science</i> , 2020 , 368, 417-420	33.3	337
116	Beta-diversity in temperate and tropical forests reflects dissimilar mechanisms of community assembly. <i>Ecology Letters</i> , 2013 , 16, 151-7	10	267
115	Aquatic eutrophication promotes pathogenic infection in amphibians. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15781-6	11.5	254
114	Biodiversity change is uncoupled from species richness trends: Consequences for conservation and monitoring. <i>Journal of Applied Ecology</i> , 2018 , 55, 169-184	5.8	247
113	SPECIES TURNOVER AND THE REGULATION OF TROPHIC STRUCTURE. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1997 , 28, 467-494		241
112	Addition of multiple limiting resources reduces grassland diversity. <i>Nature</i> , 2016 , 537, 93-96	50.4	225

111	Invasive plants have scale-dependent effects on diversity by altering species-area relationships. <i>Science</i> , 2013 , 339, 316-8	33.3	195
110	Scale-dependent effect sizes of ecological drivers on biodiversity: why standardised sampling is not enough. <i>Ecology Letters</i> , 2013 , 16 Suppl 1, 17-26	10	180
109	Drought-induced mosquito outbreaks in wetlands. <i>Ecology Letters</i> , 2003 , 6, 1017-1024	10	180
108	The geography of biodiversity change in marine and terrestrial assemblages. <i>Science</i> , 2019 , 366, 339-345	33.3	176
107	Metacommunity Ecology, Volume 59 2018 ,		174
106	THE EFFECTS OF PRODUCTIVITY, HERBIVORY, AND PLANT SPECIES TURNOVER IN GRASSLAND FOOD WEBS. <i>Ecology</i> , 2000 , 81, 2485-2497	4.6	149
105	Spatial scale resolves the niche versus neutral theory debate. <i>Journal of Vegetation Science</i> , 2014 , 25, 319-322	3.1	148
104	Inferring local ecological processes amid species pool influences. <i>Trends in Ecology and Evolution</i> , 2012 , 27, 600-7	10.9	147
103	Are there real differences among aquatic and terrestrial food webs?. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 408-412	10.9	133
102	Biodiversity and ecosystem functioning at local and regional spatial scales. <i>Ecology Letters</i> , 2002 , 5, 467-470	10	131
101	Metacommunity Ecology, Volume 59 2017 ,		128
100	Predators temper the relative importance of stochastic processes in the assembly of prey metacommunities. <i>Ecology Letters</i> , 2009 , 12, 1210-8	10	126
99	Food Web Effects of Prey Size Refugia: Variable Interactions and Alternative Stable Equilibria. <i>American Naturalist</i> , 1999 , 154, 559-570	3.7	123
98	Towards a really unified theory for metacommunities. <i>Functional Ecology</i> , 2005 , 19, 182-186	5.6	122
97	Connectivity, scale-dependence, and the productivity-diversity relationship. <i>Ecology Letters</i> , 2004 , 7, 676-683	10	118
96	Parasites in the food web: linking amphibian malformations and aquatic eutrophication. <i>Ecology Letters</i> , 2004 , 7, 521-526	10	117
95	Embracing scale-dependence to achieve a deeper understanding of biodiversity and its change across communities. <i>Ecology Letters</i> , 2018 , 21, 1737-1751	10	117
94	The role of habitat connectivity and landscape geometry in experimental zooplankton metacommunities. <i>Oikos</i> , 2002 , 96, 433-440	4	105

93	Interactions between mosquito larvae and species that share the same trophic level. <i>Annual Review of Entomology</i> , 2007 , 52, 489-507	21.8	104
92	Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. <i>Global Ecology and Biogeography</i> , 2013 , 22, 202-212	6.1	91
91	Community assembly and the functioning of ecosystems: how metacommunity processes alter ecosystems attributes. <i>Ecology</i> , 2017 , 98, 909-919	4.6	89
90	Inter-annual associations between precipitation and human incidence of West Nile virus in the United States. <i>Vector-Borne and Zoonotic Diseases</i> , 2007 , 7, 337-43	2.4	89
89	Strong and weak trophic cascades along a productivity gradient. <i>Oikos</i> , 2003 , 101, 187-195	4	87
88	Experimental evidence for alternative stable equilibria in a benthic pond food web. <i>Ecology Letters</i> , 2003 , 6, 733-741	10	86
87	Abiotic Controls of Trophic Cascades in a Simple Grassland Food Chain. <i>Oikos</i> , 1996 , 77, 495	4	86
86	Disturbance alters beta-diversity but not the relative importance of community assembly mechanisms. <i>Journal of Ecology</i> , 2015 , 103, 1291-1299	6	84
85	To Grow or to Reproduce? The Role of Life-History Plasticity in Food Web Dynamics. <i>American Naturalist</i> , 1999 , 154, 571-586	3.7	81
84	Alternative stable states and regional community structure. <i>Journal of Theoretical Biology</i> , 2004 , 227, 359-68	2.3	80
83	Species richness change across spatial scales. <i>Oikos</i> , 2019 , 128, 1079-1091	4	78
82	Ecosystem decay exacerbates biodiversity loss with habitat loss. <i>Nature</i> , 2020 , 584, 238-243	50.4	78
81	The role of size-specific predation in the evolution and diversification of prey life histories. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 877-87	3.8	76
80	A process-based metacommunity framework linking local and regional scale community ecology. <i>Ecology Letters</i> , 2020 , 23, 1314-1329	10	71
79	Macroecology to Unite All Life, Large and Small. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 731-744	10.9	67
78	DISTURBANCE, PREDATOR, AND RESOURCE INTERACTIONS ALTER CONTAINER COMMUNITY COMPOSITION. <i>Ecology</i> , 2004 , 85, 2088-2093	4.6	61
77	Measurement of Biodiversity (MoB): A method to separate the scale-dependent effects of species abundance distribution, density, and aggregation on diversity change. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 258-269	7.7	58
76	Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (CAFE) approach. <i>Ecology Letters</i> , 2018 , 21, 167-180	10	48

75	Plant tolerance and resistance in food webs: community-level predictions and evolutionary implications. <i>Evolutionary Ecology</i> , 2000 , 14, 289-314	1.8	48
74	Global patterns and drivers of tree diversity integrated across a continuum of spatial grains. <i>Nature Ecology and Evolution</i> , 2019 , 3, 390-399	12.3	47
73	Spatial scale modulates the inference of metacommunity assembly processes. <i>Ecology</i> , 2019 , 100, e0257466	4.6	45
72	Beneath the veil: plant growth form influences the strength of species richness-productivity relationships in forests. <i>Global Ecology and Biogeography</i> , 2009 , 18, 416-425	6.1	43
71	Integrating the underlying structure of stochasticity into community ecology. <i>Ecology</i> , 2020 , 101, e029224.6	4.6	42
70	Habitat loss over six decades accelerates regional and local biodiversity loss via changing landscape connectance. <i>Ecology Letters</i> , 2019 , 22, 1019-1027	10	41
69	CENTRAL-PLACE FORAGER EFFECTS ON FOOD WEB DYNAMICS AND SPATIAL PATTERN IN NORTHERN CALIFORNIA MEADOWS. <i>Ecology</i> , 1998 , 79, 1236-1245	4.6	39
68	Habitat isolation moderates the strength of top-down control in experimental pond food webs. <i>Ecology</i> , 2010 , 91, 637-43	4.6	36
67	We need more realistic climate change experiments for understanding ecosystems of the future. <i>Global Change Biology</i> , 2020 , 26, 325-327	11.4	36
66	Lifting the veil: richness measurements fail to detect systematic biodiversity change over three decades. <i>Ecology</i> , 2018 , 99, 1316-1326	4.6	32
65	Predator-dependent species-area relationships. <i>American Naturalist</i> , 2007 , 170, 636-42	3.7	31
64	Wetland isolation facilitates larval mosquito density through the reduction of predators. <i>Ecological Entomology</i> , 2009 , 34, 741-747	2.1	30
63	Effects of eutrophication and snails on Eurasian watermilfoil (<i>Myriophyllum spicatum</i>) invasion. <i>Biological Invasions</i> , 2006 , 8, 1643-1649	2.7	30
62	Disturbance alters habitat isolation's effect on biodiversity in aquatic microcosms. <i>Oikos</i> , 2006 , 114, 360-366	4.6	28
61	Increasing isolation reduces predator:prey species richness ratios in aquatic food webs. <i>Oikos</i> , 2007 , 116, 1581-1587	4	27
60	Differential Competitive Interactions and the Included Niche: An Experimental Analysis with Grasshoppers. <i>Oikos</i> , 1996 , 76, 103	4	27
59	A framework for disentangling ecological mechanisms underlying the island species-area relationship. <i>Frontiers of Biogeography</i> , 2019 , 11,	2.9	25
58	Biodiversity conservation through the lens of metacommunity ecology. <i>Annals of the New York Academy of Sciences</i> , 2020 , 1469, 86-104	6.5	23

57	Spatial scaling of extinction rates: Theory and data reveal nonlinearity and a major upscaling and downscaling challenge. <i>Global Ecology and Biogeography</i> , 2018 , 27, 2-13	6.1	23
56	COMMUNITY GENETICS: TOWARD A SYNTHESIS. <i>Ecology</i> , 2003 , 84, 580-582	4.6	22
55	Predators alter the scaling of diversity in prey metacommunities. <i>Oikos</i> , 2012 , 121, 1995-2000	4	21
54	Dispersal stochasticity mediates species richness in source-sink metacommunities. <i>Oikos</i> , 2013 , 122, 395-402	4	21
53	The geometry of habitat fragmentation: Effects of species distribution patterns on extinction risk due to habitat conversion. <i>Ecology and Evolution</i> , 2019 , 9, 2775-2790	2.8	20
52	Unifying macroecology and macroevolution to answer fundamental questions about biodiversity. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1925-1936	6.1	19
51	Habitat area affects arthropod communities directly and indirectly through top predators. <i>Ecography</i> , 2007 , 30, 359-366	6.5	18
50	mobsim: An r package for the simulation and measurement of biodiversity across spatial scales. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 1401-1408	7.7	17
49	Varying Resource Abundances and Competitive Dynamics. <i>American Naturalist</i> , 1996 , 147, 649-654	3.7	15
48	Habitat size modulates the influence of heterogeneity on species richness patterns in a model zooplankton community. <i>Ecology</i> , 2017 , 98, 1651-1659	4.6	14
47	Dissecting macroecological and macroevolutionary patterns of forest biodiversity across the Hawaiian archipelago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16436-16441	11.5	13
46	Habitat patch size alters the importance of dispersal for species diversity in an experimental freshwater community. <i>Ecology and Evolution</i> , 2017 , 7, 5774-5783	2.8	13
45	Implications of Food Web Interactions for Restoration of Missouri Ozark Glade Habitats. <i>Restoration Ecology</i> , 2005 , 13, 312-317	3.1	13
44	Integrating local breeding pond, landcover, and climate factors in predicting amphibian distributions. <i>Landscape Ecology</i> , 2012 , 27, 1183-1196	4.3	12
43	Responses of plant diversity to precipitation change are strongest at local spatial scales and in drylands. <i>Nature Communications</i> , 2021 , 12, 2489	17.4	12
42	Global reef fish richness gradients emerge from divergent and scale-dependent component changes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	11
41	Fear of Parasites: Lone Star Ticks Increase Giving-up Densities in White-Tailed Deer. <i>Israel Journal of Ecology and Evolution</i> , 2010 , 56, 313-324	0.8	11
40	More individuals drive the species energy-area relationship in an experimental zooplankton community. <i>Oikos</i> , 2015 , 124, 1065-1070	4	10

39	THE EFFECTS OF PRODUCTIVITY, HERBIVORY, AND PLANT SPECIES TURNOVER IN GRASSLAND FOOD WEBS 2000 , 81, 2485		10
38	A global database for metacommunity ecology, integrating species, traits, environment and space. <i>Scientific Data</i> , 2020 , 7, 6	8.2	10
37	A cross-scale assessment of productivity-diversity relationships. <i>Global Ecology and Biogeography</i> , 2020 , 29, 1940-1955	6.1	10
36	Reducing dispersal limitation via seed addition increases species richness but not above-ground biomass. <i>Ecology Letters</i> , 2020 , 23, 1442-1450	10	9
35	Sampling effects drive the species-area relationship in lake zooplankton. <i>Oikos</i> , 2020 , 129, 124-132	4	9
34	Mediterranean marine protected areas have higher biodiversity via increased evenness, not abundance. <i>Journal of Applied Ecology</i> , 2020 , 57, 578-589	5.8	8
33	Effects of site-selection bias on estimates of biodiversity change. <i>Conservation Biology</i> , 2021 , 35, 688-698		8
32	Response to Comments on "Disentangling the Drivers of Diversity Along Latitudinal and Elevational Gradients". <i>Science</i> , 2012 , 335, 1573-1573	33.3	7
31	Mechanistic reconciliation of community and invasion ecology.. <i>Ecosphere</i> , 2021 , 12, e03359	3.1	7
30	Landscape context influences the abundance of amphibians and the strength of their food web interactions in small ponds. <i>Oikos</i> , 2015 , 124, 629-638	4	6
29	Response to Comment on "Meta-analysis reveals declines in terrestrial but increases in freshwater insect abundances". <i>Science</i> , 2020 , 370,	33.3	6
28	Bigger data: Scale-dependent effects of invasive species on biodiversity cannot overcome confounded analyses: a comment on Stohlgren & Rejmánek (2014). <i>Biology Letters</i> , 2015 , 11,	3.6	5
27	OpenNahele: the open Hawaiian forest plot database. <i>Biodiversity Data Journal</i> , 2018 , e28406	1.8	5
26	General statistical scaling laws for stability in ecological systems. <i>Ecology Letters</i> , 2021 , 24, 1474-1486	10	5
25	A multiscale framework for disentangling the roles of evenness, density, and aggregation on diversity gradients. <i>Ecology</i> , 2021 , 102, e03233	4.6	5
24	Scale-dependent effects of conspecific negative density dependence and immigration on biodiversity maintenance. <i>Oikos</i> , 2020 , 129, 1072-1083	4	4
23	Historical and contemporary factors govern global biodiversity patterns. <i>PLoS Biology</i> , 2012 , 10, e1001294	9.7	4
22	Synthesis reveals that island species-area relationships emerge from processes beyond passive sampling. <i>Global Ecology and Biogeography</i> , 2021 , 30, 2119-2131	6.1	4

21	A synthesis of land use impacts on stream biodiversity across metrics and scales. <i>Ecology</i> , 2021 , 102, e03498	4.6	4
20	FragSAD: A database of diversity and species abundance distributions from habitat fragments. <i>Ecology</i> , 2019 , 100, e02861	4.6	3
19	The internal structure of metacommunities. <i>Oikos</i> ,	4	3
18	Measurement and analysis of interspecific spatial associations as a facet of biodiversity. <i>Ecological Monographs</i> , 2021 , 91, e01452	9	3
17	Disentangling metacommunity processes using multiple metrics in space and time		2
16	Knowledge sharing for shared success in the decade on ecosystem restoration. <i>Ecological Solutions and Evidence</i> , 2022 , 3, e12117	2.1	2
15	Embracing scale-dependence to achieve a deeper understanding of biodiversity and its change across communities		2
14	MoB (Measurement of Biodiversity): a method to separate the scale-dependent effects of species abundance distribution, density, and aggregation on diversity change		2
13	A process-based metacommunity framework linking local and regional scale community ecology		2
12	Understanding plant communities of the future requires filling knowledge gaps. <i>Global Change Biology</i> , 2020 , 26, 328-329	11.4	2
11	InsectChange: a global database of temporal changes in insect and arachnid assemblages. <i>Ecology</i> , 2021 , 102, e03354	4.6	2
10	Species loss due to nutrient addition increases with spatial scale in global grasslands. <i>Ecology Letters</i> , 2021 , 24, 2100-2112	10	2
9	Long-term abundance trends of insect taxa are only weakly correlated.. <i>Biology Letters</i> , 2022 , 18, 20210554	3.4	2
8	The use of GEDI canopy structure for explaining variation in tree species richness in natural forests. <i>Environmental Research Letters</i> , 2022 , 17, 045003	6.2	2
7	Species-area relationships in the Andaman and Nicobar Islands emerge because rarer species are disproportionately favored on larger islands. <i>Ecology and Evolution</i> , 2020 , 10, 7551-7559	2.8	1
6	Using coverage-based rarefaction to infer non-random species distributions. <i>Ecosphere</i> , 2021 , 12, e03745	5.1	1
5	Ecological traits underlying interspecific variation in climate matching of birds. <i>Global Ecology and Biogeography</i> , 2022 , 31, 1021-1034	6.1	1
4	Accounting for temporal change in multiple biodiversity patterns improves the inference of metacommunity processes.. <i>Ecology</i> , 2022 , e3683	4.6	1

3	Quantifying effort needed to estimate species diversity from citizen science data. <i>Ecosphere</i> , 2022 , 13,	3.1	1
2	How much lox is a grizzly bear worth?. <i>PLoS Biology</i> , 2012 , 10, e1001304	9.7	
1	Revisiting global trends in freshwater insect biodiversity: A reply. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021 , 8, e1501	5.7	