

# Jonathan M Chase

## List of Publications by Year in descending order

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Version: 2024-02-01

122  
papers

20,422  
citations

28274

55  
h-index

17592

121  
g-index

170  
all docs

170  
docs citations

170  
times ranked

18954  
citing authors

#	ARTICLE	IF	CITATIONS
1	Navigating the multiple meanings of $\hat{H}^2$ diversity: a roadmap for the practicing ecologist. Ecology Letters, 2011, 14, 19-28.	6.4	1,899
2	Disentangling the importance of ecological niches from stochastic processes across scales. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2351-2363.	4.0	1,161
3	Community assembly: when should history matter?. Oecologia, 2003, 136, 489-498.	2.0	857
4	Drought mediates the importance of stochastic community assembly. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17430-17434.	7.1	819
5	Stochastic Community Assembly Causes Higher Biodiversity in More Productive Environments. Science, 2010, 328, 1388-1391.	12.6	814
6	Using null models to disentangle variation in community dissimilarity from variation in $\hat{H}^2$ -diversity. Ecosphere, 2011, 2, art24.	2.2	698
7	Spatial scale dictates the productivity–biodiversity relationship. Nature, 2002, 416, 427-430.	27.8	686
8	Meta-analysis reveals declines in terrestrial but increases in freshwater insect abundances. Science, 2020, 368, 417-420.	12.6	674
9	Trade-offs in community ecology: linking spatial scales and species coexistence. Ecology Letters, 2004, 7, 69-80.	6.4	643
10	Disentangling the Drivers of $\hat{H}^2$ Diversity Along Latitudinal and Elevational Gradients. Science, 2011, 333, 1755-1758.	12.6	617
11	The interaction between predation and competition: a review and synthesis. Ecology Letters, 2002, 5, 302-315.	6.4	596
12	Biodiversity change is uncoupled from species richness trends: Consequences for conservation and monitoring. Journal of Applied Ecology, 2018, 55, 169-184.	4.0	435
13	The geography of biodiversity change in marine and terrestrial assemblages. Science, 2019, 366, 339-345.	12.6	385
14	Beta–diversity in temperate and tropical forests reflects dissimilar mechanisms of community assembly. Ecology Letters, 2013, 16, 151-157.	6.4	370
15	Addition of multiple limiting resources reduces grassland diversity. Nature, 2016, 537, 93-96.	27.8	355
16	Aquatic eutrophication promotes pathogenic infection in amphibians. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15781-15786.	7.1	296
17	SPECIES TURNOVER AND THE REGULATION OF TROPHIC STRUCTURE. Annual Review of Ecology, Evolution, and Systematics, 1997, 28, 467-494.	6.7	292
18	Invasive Plants Have Scale-Dependent Effects on Diversity by Altering Species-Area Relationships. Science, 2013, 339, 316-318.	12.6	261

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19	Scale-dependent effect sizes of ecological drivers on biodiversity: why standardised sampling is not enough. <i>Ecology Letters</i> , 2013, 16, 17-26.	6.4	250
20	Drought-induced mosquito outbreaks in wetlands. <i>Ecology Letters</i> , 2003, 6, 1017-1024.	6.4	223
21	Ecosystem decay exacerbates biodiversity loss with habitat loss. <i>Nature</i> , 2020, 584, 238-243.	27.8	214
22	Embracing scale-dependence to achieve a deeper understanding of biodiversity and its change across communities. <i>Ecology Letters</i> , 2018, 21, 1737-1751.	6.4	204
23	Spatial scale resolves the niche versus neutral theory debate. <i>Journal of Vegetation Science</i> , 2014, 25, 319-322.	2.2	197
24	A process-based metacommunity framework linking local and regional scale community ecology. <i>Ecology Letters</i> , 2020, 23, 1314-1329.	6.4	193
25	Inferring local ecological processes amid species pool influences. <i>Trends in Ecology and Evolution</i> , 2012, 27, 600-607.	8.7	188
26	THE EFFECTS OF PRODUCTIVITY, HERBIVORY, AND PLANT SPECIES TURNOVER IN GRASSLAND FOOD WEBS. <i>Ecology</i> , 2000, 81, 2485-2497.	3.2	176
27	Community assembly and the functioning of ecosystems: how metacommunity processes alter ecosystems attributes. <i>Ecology</i> , 2017, 98, 909-919.	3.2	164
28	Are there real differences among aquatic and terrestrial food webs?. <i>Trends in Ecology and Evolution</i> , 2000, 15, 408-412.	8.7	162
29	Species richness change across spatial scales. <i>Oikos</i> , 2019, 128, 1079-1091.	2.7	160
30	Predators temper the relative importance of stochastic processes in the assembly of prey metacommunities. <i>Ecology Letters</i> , 2009, 12, 1210-1218.	6.4	158
31	Biodiversity and ecosystem functioning at local and regional spatial scales. <i>Ecology Letters</i> , 2002, 5, 467-470.	6.4	152
32	Towards a really unified theory for metacommunities. <i>Functional Ecology</i> , 2005, 19, 182-186.	3.6	140
33	Food Web Effects of Prey Size Refugia: Variable Interactions and Alternative Stable Equilibria. <i>American Naturalist</i> , 1999, 154, 559-570.	2.1	135
34	Parasites in the food web: linking amphibian malformations and aquatic eutrophication. <i>Ecology Letters</i> , 2004, 7, 521-526.	6.4	134
35	Connectivity, scale-dependence, and the productivity-diversity relationship. <i>Ecology Letters</i> , 2004, 7, 676-683.	6.4	131
36	Disturbance alters beta-diversity but not the relative importance of community assembly mechanisms. <i>Journal of Ecology</i> , 2015, 103, 1291-1299.	4.0	124

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37	Interactions Between Mosquito Larvae and Species that Share the Same Trophic Level. <i>Annual Review of Entomology</i> , 2007, 52, 489-507.	11.8	122
38	Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. <i>Global Ecology and Biogeography</i> , 2013, 22, 202-212.	5.8	121
39	The role of habitat connectivity and landscape geometry in experimental zooplankton metacommunities. <i>Oikos</i> , 2002, 96, 433-440.	2.7	118
40	Macroecology to Unite All Life, Large and Small. <i>Trends in Ecology and Evolution</i> , 2018, 33, 731-744.	8.7	118
41	Integrating the underlying structure of stochasticity into community ecology. <i>Ecology</i> , 2020, 101, e02922.	3.2	113
42	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, 337-343.	1.5	112
43	Abiotic Controls of Trophic Cascades in a Simple Grassland Food Chain. <i>Oikos</i> , 1996, 77, 495.	2.7	103
44	Alternative stable states and regional community structure. <i>Journal of Theoretical Biology</i> , 2004, 227, 359-368.	1.7	102
45	Habitat loss over six decades accelerates regional and local biodiversity loss via changing landscape connectance. <i>Ecology Letters</i> , 2019, 22, 1019-1027.	6.4	99
46	Strong and weak trophic cascades along a productivity gradient. <i>Oikos</i> , 2003, 101, 187-195.	2.7	98
47	Experimental evidence for alternative stable equilibria in a benthic pond food web. <i>Ecology Letters</i> , 2003, 6, 733-741.	6.4	98
48	Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (<scp>CAFE</scp>) approach. <i>Ecology Letters</i> , 2018, 21, 167-180.	6.4	94
49	Global patterns and drivers of tree diversity integrated across a continuum of spatial grains. <i>Nature Ecology and Evolution</i> , 2019, 3, 390-399.	7.8	91
50	Spatial scale modulates the inference of metacommunity assembly processes. <i>Ecology</i> , 2019, 100, e02576.	3.2	91
51	To Grow or to Reproduce? The Role of Lifeâ€™History Plasticity in Food Web Dynamics. <i>American Naturalist</i> , 1999, 154, 571-586.	2.1	87
52	Measurement of Biodiversity (MoB): A method to separate the scaleâ€™dependent effects of species abundance distribution, density, and aggregation on diversity change. <i>Methods in Ecology and Evolution</i> , 2019, 10, 258-269.	5.2	87
53	Biodiversity conservation through the lens of metacommunity ecology. <i>Annals of the New York Academy of Sciences</i> , 2020, 1469, 86-104.	3.8	81
54	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, 877-887.	2.3	78

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55	DISTURBANCE, PREDATOR, AND RESOURCE INTERACTIONS ALTER CONTAINER COMMUNITY COMPOSITION. <i>Ecology</i> , 2004, 85, 2088-2093.	3.2	74
56	We need more realistic climate change experiments for understanding ecosystems of the future. <i>Global Change Biology</i> , 2020, 26, 325-327.	9.5	65
57	Lifting the veil: richness measurements fail to detect systematic biodiversity change over three decades. <i>Ecology</i> , 2018, 99, 1316-1326.	3.2	57
58	Plant tolerance and resistance in food webs: community-level predictions and evolutionary implications. <i>Evolutionary Ecology</i> , 2000, 14, 289-314.	1.2	51
59	CENTRAL-PLACE FORAGER EFFECTS ON FOOD WEB DYNAMICS AND SPATIAL PATTERN IN NORTHERN CALIFORNIA MEADOWS. <i>Ecology</i> , 1998, 79, 1236-1245.	3.2	50
60	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.	5.8	49
61	A framework for disentangling ecological mechanisms underlying the island species–area relationship. <i>Frontiers of Biogeography</i> , 2019, 11, .	1.8	46
62	Unifying macroecology and macroevolution to answer fundamental questions about biodiversity. <i>Global Ecology and Biogeography</i> , 2019, 28, 1925-1936.	5.8	44
63	Responses of plant diversity to precipitation change are strongest at local spatial scales and in drylands. <i>Nature Communications</i> , 2021, 12, 2489.	12.8	43
64	Habitat isolation moderates the strength of top–down control in experimental pond food webs. <i>Ecology</i> , 2010, 91, 637-643.	3.2	40
65	Wetland isolation facilitates larval mosquito density through the reduction of predators. <i>Ecological Entomology</i> , 2009, 34, 741-747.	2.2	38
66	Predator–Dependent Species–Area Relationships. <i>American Naturalist</i> , 2007, 170, 636-642.	2.1	37
67	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.	1.9	37
68	A cross-scale assessment of productivity–diversity relationships. <i>Global Ecology and Biogeography</i> , 2020, 29, 1940-1955.	5.8	35
69	Effects of eutrophication and snails on Eurasian watermilfoil ( <i>Myriophyllum spicatum</i> ) invasion. <i>Biological Invasions</i> , 2006, 8, 1643-1649.	2.4	34
70	Increasing isolation reduces predator:prey species richness ratios in aquatic food webs. <i>Oikos</i> , 2007, 116, 1581-1587.	2.7	34
71	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.	5.8	34
72	Differential Competitive Interactions and the Included Niche: An Experimental Analysis with Grasshoppers. <i>Oikos</i> , 1996, 76, 103.	2.7	33

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73	General statistical scaling laws for stability in ecological systems. <i>Ecology Letters</i> , 2021, 24, 1474-1486.	6.4	32
74	The internal structure of metacommunities. <i>Oikos</i> , 2022, 2022, .	2.7	32
75	Disturbance alters habitat isolation's effect on biodiversity in aquatic microcosms. <i>Oikos</i> , 2006, 114, 360-366.	2.7	31
76	Predators alter the scaling of diversity in prey metacommunities. <i>Oikos</i> , 2012, 121, 1995-2000.	2.7	30
77	mobsim: An <code>&lt;scp&gt;r&lt;/scp&gt;</code> package for the simulation and measurement of biodiversity across spatial scales. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1401-1408.	5.2	28
78	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.	7.1	28
79	A global database for metacommunity ecology, integrating species, traits, environment and space. <i>Scientific Data</i> , 2020, 7, 6.	5.3	28
80	COMMUNITY GENETICS: TOWARD A SYNTHESIS. <i>Ecology</i> , 2003, 84, 580-582.	3.2	26
81	Dispersal stochasticity mediates species richness in source-sink metacommunities. <i>Oikos</i> , 2013, 122, 395-402.	2.7	26
82	Mediterranean marine protected areas have higher biodiversity via increased evenness, not abundance. <i>Journal of Applied Ecology</i> , 2020, 57, 578-589.	4.0	25
83	A synthesis of land use impacts on stream biodiversity across metrics and scales. <i>Ecology</i> , 2021, 102, e03498.	3.2	24
84	Effects of site-selection bias on estimates of biodiversity change. <i>Conservation Biology</i> , 2021, 35, 688-698.	4.7	22
85	Measurement and analysis of interspecific spatial associations as a facet of biodiversity. <i>Ecological Monographs</i> , 2021, 91, e01452.	5.4	22
86	Mechanistic reconciliation of community and invasion ecology. <i>Ecosphere</i> , 2021, 12, e03359.	2.2	21
87	Habitat area affects arthropod communities directly and indirectly through top predators. <i>Ecography</i> , 2007, 30, 359-366.	4.5	20
88	Habitat size modulates the influence of heterogeneity on species richness patterns in a model zooplankton community. <i>Ecology</i> , 2017, 98, 1651-1659.	3.2	19
89	Reducing dispersal limitation via seed addition increases species richness but not above-ground biomass. <i>Ecology Letters</i> , 2020, 23, 1442-1450.	6.4	19
90	Knowledge sharing for shared success in the decade on ecosystem restoration. <i>Ecological Solutions and Evidence</i> , 2022, 3, e12117.	2.0	18

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91	Sampling effects drive the species–area relationship in lake zooplankton. <i>Oikos</i> , 2020, 129, 124-132.	2.7	17
92	InsectChange: a global database of temporal changes in insect and arachnid assemblages. <i>Ecology</i> , 2021, 102, e03354.	3.2	17
93	The use of GEDI canopy structure for explaining variation in tree species richness in natural forests. <i>Environmental Research Letters</i> , 2022, 17, 045003.	5.2	17
94	Accounting for temporal change in multiple biodiversity patterns improves the inference of metacommunity processes. <i>Ecology</i> , 2022, 103, e3683.	3.2	17
95	Integrating local breeding pond, landcover, and climate factors in predicting amphibian distributions. <i>Landscape Ecology</i> , 2012, 27, 1183-1196.	4.2	16
96	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.	1.9	16
97	Varying Resource Abundances and Competitive Dynamics. <i>American Naturalist</i> , 1996, 147, 649-654.	2.1	15
98	Implications of Food Web Interactions for Restoration of Missouri Ozark Glade Habitats. <i>Restoration Ecology</i> , 2005, 13, 312-317.	2.9	15
99	Synthesis reveals that island species–area relationships emerge from processes beyond passive sampling. <i>Global Ecology and Biogeography</i> , 2021, 30, 2119-2131.	5.8	15
100	The Effects of Productivity, Herbivory, and Plant Species Turnover in Grassland Food Webs. <i>Ecology</i> , 2000, 81, 2485.	3.2	15
101	Long-term abundance trends of insect taxa are only weakly correlated. <i>Biology Letters</i> , 2022, 18, 20210554.	2.3	15
102	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, 20170947.	2.6	14
103	A multiscale framework for disentangling the roles of evenness, density, and aggregation on diversity gradients. <i>Ecology</i> , 2021, 102, e03233.	3.2	14
104	Response to Comment on “Meta-analysis reveals declines in terrestrial but increases in freshwater insect abundances”. <i>Science</i> , 2020, 370, .	12.6	14
105	Species loss due to nutrient addition increases with spatial scale in global grasslands. <i>Ecology Letters</i> , 2021, 24, 2100-2112.	6.4	13
106	Using coverage-based rarefaction to infer non-random species distributions. <i>Ecosphere</i> , 2021, 12, e03745.	2.2	13
107	More individuals drive the species energy–area relationship in an experimental zooplankton community. <i>Oikos</i> , 2015, 124, 1065-1070.	2.7	12
108	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.	0.6	11

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109	Scale-dependent effects of conspecific negative density dependence and immigration on biodiversity maintenance. <i>Oikos</i> , 2020, 129, 1072-1083.	2.7	10
110	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.	1.9	9
111	OpenNahele: the open Hawaiian forest plot database. <i>Biodiversity Data Journal</i> , 2018, 6, e28406.	0.8	9
112	Increasing climatic decoupling of bird abundances and distributions. <i>Nature Ecology and Evolution</i> , 2022, 6, 1299-1306.	7.8	9
113	Response to Comments on "Disentangling the Drivers of $\hat{\lambda}^2$ Diversity Along Latitudinal and Elevational Gradients". <i>Science</i> , 2012, 335, 1573-1573.	12.6	8
114	"Bigger data"™ on scale-dependent effects of invasive species on biodiversity cannot overcome confounded analyses: a comment on Stohlgren & Rejmánek (2014). <i>Biology Letters</i> , 2015, 11, 20150103.	2.3	8
115	Frag SAD : A database of diversity and species abundance distributions from habitat fragments. <i>Ecology</i> , 2019, 100, e02861.	3.2	8
116	Quantifying effort needed to estimate species diversity from citizen science data. <i>Ecosphere</i> , 2022, 13, .	2.2	7
117	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.	2.7	6
118	Historical and Contemporary Factors Govern Global Biodiversity Patterns. <i>PLoS Biology</i> , 2012, 10, e1001294.	5.6	5
119	Understanding plant communities of the future requires filling knowledge gaps. <i>Global Change Biology</i> , 2020, 26, 328-329.	9.5	4
120	Ecological traits underlying interspecific variation in climate matching of birds. <i>Global Ecology and Biogeography</i> , 2022, 31, 1021-1034.	5.8	4
121	Revisiting global trends in freshwater insect biodiversity: A reply. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1501.	6.5	2
122	How Much Lox Is a Grizzly Bear Worth?. <i>PLoS Biology</i> , 2012, 10, e1001304.	5.6	0