Jonathan M Chase

List of Publications by Year in Descending Order

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	Knowledge sharing for shared success in the decade on ecosystem restoration. *Ecological Solutions and Evidence*, **2022**, 3, e12117	2.1	2
127	Long-term abundance trends of insect taxa are only weakly correlated.. *Biology Letters*, **2022**, 18, 20210554	3.6	2
126	The use of GEDI canopy structure for explaining variation in tree species richness in natural forests. *Environmental Research Letters*, **2022**, 17, 045003	6.2	2
125	Ecological traits underlying interspecific variation in climate matching of birds. *Global Ecology and Biogeography*, **2022**, 31, 1021-1034	6.1	1
124	Accounting for temporal change in multiple biodiversity patterns improves the inference of metacommunity processes.. *Ecology*, **2022**, e3683	4.6	1
123	Quantifying effort needed to estimate species diversity from citizen science data. *Ecosphere*, **2022**, 13,	3.1	1
122	Revisiting global trends in freshwater insect biodiversity: A reply. *Wiley Interdisciplinary Reviews: Water*, **2021**, 8, e1501	5.7	
121	Responses of plant diversity to precipitation change are strongest at local spatial scales and in drylands. *Nature Communications*, **2021**, 12, 2489	17.4	12
120	InsectChange: a global database of temporal changes in insect and arachnid assemblages. *Ecology*, **2021**, 102, e03354	4.6	2
119	Measurement and analysis of interspecific spatial associations as a facet of biodiversity. *Ecological Monographs*, **2021**, 91, e01452	9	3
118	General statistical scaling laws for stability in ecological systems. *Ecology Letters*, **2021**, 24, 1474-1486	10	5
117	Species loss due to nutrient addition increases with spatial scale in global grasslands. *Ecology Letters*, **2021**, 24, 2100-2112	10	2
116	A multiscale framework for disentangling the roles of evenness, density, and aggregation on diversity gradients. *Ecology*, **2021**, 102, e03233	4.6	5
115	Effects of site-selection bias on estimates of biodiversity change. *Conservation Biology*, **2021**, 35, 688-698	8	8
114	Mechanistic reconciliation of community and invasion ecology.. *Ecosphere*, **2021**, 12, e03359	3.1	7
113	Synthesis reveals that island species–area relationships emerge from processes beyond passive sampling. *Global Ecology and Biogeography*, **2021**, 30, 2119-2131	6.1	4
112	A synthesis of land use impacts on stream biodiversity across metrics and scales. *Ecology*, **2021**, 102, e03498	4.6	4

111	Using coverage-based rarefaction to infer non-random species distributions. *Ecosphere*, **2021**, 12, e03745	3.1	1
110	Biodiversity conservation through the lens of metacommunity ecology. *Annals of the New York Academy of Sciences*, **2020**, 1469, 86-104	6.5	23
109	Reducing dispersal limitation via seed addition increases species richness but not above-ground biomass. *Ecology Letters*, **2020**, 23, 1442-1450	10	9
108	Scale-dependent effects of conspecific negative density dependence and immigration on biodiversity maintenance. *Oikos*, **2020**, 129, 1072-1083	4	4
107	Species-area relationships in the Andaman and Nicobar Islands emerge because rarer species are disproportionately favored on larger islands. *Ecology and Evolution*, **2020**, 10, 7551-7559	2.8	1
106	Mediterranean marine protected areas have higher biodiversity via increased evenness, not abundance. *Journal of Applied Ecology*, **2020**, 57, 578-589	5.8	8
105	Response to Comment on "Meta-analysis reveals declines in terrestrial but increases in freshwater insect abundances". *Science*, **2020**, 370,	33.3	6
104	Understanding plant communities of the future requires filling knowledge gaps. *Global Change Biology*, **2020**, 26, 328-329	11.4	2
103	Sampling effects drive the species–area relationship in lake zooplankton. *Oikos*, **2020**, 129, 124-132	4	9
102	A global database for metacommunity ecology, integrating species, traits, environment and space. *Scientific Data*, **2020**, 7, 6	8.2	10
101	A process-based metacommunity framework linking local and regional scale community ecology. *Ecology Letters*, **2020**, 23, 1314-1329	10	71
100	Ecosystem decay exacerbates biodiversity loss with habitat loss. *Nature*, **2020**, 584, 238-243	50.4	78
99	A cross-scale assessment of productivity–diversity relationships. *Global Ecology and Biogeography*, **2020**, 29, 1940-1955	6.1	10
98	Integrating the underlying structure of stochasticity into community ecology. *Ecology*, **2020**, 101, e02922	4.6	42
97	We need more realistic climate change experiments for understanding ecosystems of the future. *Global Change Biology*, **2020**, 26, 325-327	11.4	36
96	Meta-analysis reveals declines in terrestrial but increases in freshwater insect abundances. *Science*, **2020**, 368, 417-420	33.3	337
95	A framework for disentangling ecological mechanisms underlying the island species–area relationship. *Frontiers of Biogeography*, **2019**, 11,	2.9	25
94	Species richness change across spatial scales. *Oikos*, **2019**, 128, 1079-1091	4	78

93	Habitat loss over six decades accelerates regional and local biodiversity loss via changing landscape connectance. *Ecology Letters*, **2019**, 22, 1019-1027	10	41
92	The geometry of habitat fragmentation: Effects of species distribution patterns on extinction risk due to habitat conversion. *Ecology and Evolution*, **2019**, 9, 2775-2790	2.8	20
91	FragSAD: A database of diversity and species abundance distributions from habitat fragments. *Ecology*, **2019**, 100, e02861	4.6	3
90	Dissecting macroecological and macroevolutionary patterns of forest biodiversity across the Hawaiian archipelago. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 16436-16441	11.5	13
89	The geography of biodiversity change in marine and terrestrial assemblages. *Science*, **2019**, 366, 339-345	33.3	176
88	Unifying macroecology and macroevolution to answer fundamental questions about biodiversity. *Global Ecology and Biogeography*, **2019**, 28, 1925-1936	6.1	19
87	Global patterns and drivers of tree diversity integrated across a continuum of spatial grains. *Nature Ecology and Evolution*, **2019**, 3, 390-399	12.3	47
86	Spatial scale modulates the inference of metacommunity assembly processes. *Ecology*, **2019**, 100, e02574	4.6	45
85	Measurement of Biodiversity (MoB): A method to separate the scale-dependent effects of species abundance distribution, density, and aggregation on diversity change. *Methods in Ecology and Evolution*, **2019**, 10, 258-269	7.7	58
84	mobsim: An r package for the simulation and measurement of biodiversity across spatial scales. *Methods in Ecology and Evolution*, **2018**, 9, 1401-1408	7.7	17
83	Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (CAFE) approach. *Ecology Letters*, **2018**, 21, 167-180	10	48
82	Lifting the veil: richness measurements fail to detect systematic biodiversity change over three decades. *Ecology*, **2018**, 99, 1316-1326	4.6	32
81	Biodiversity change is uncoupled from species richness trends: Consequences for conservation and monitoring. *Journal of Applied Ecology*, **2018**, 55, 169-184	5.8	247
80	Metacommunity Ecology, Volume 59 **2018**,		174
79	OpenNahele: the open Hawaiian forest plot database. *Biodiversity Data Journal*, **2018**, e28406	1.8	5
78	Spatial scaling of extinction rates: Theory and data reveal nonlinearity and a major upscaling and downscaling challenge. *Global Ecology and Biogeography*, **2018**, 27, 2-13	6.1	23
77	Embracing scale-dependence to achieve a deeper understanding of biodiversity and its change across communities. *Ecology Letters*, **2018**, 21, 1737-1751	10	117
76	Macroecology to Unite All Life, Large and Small. *Trends in Ecology and Evolution*, **2018**, 33, 731-744	10.9	67

75	Habitat size modulates the influence of heterogeneity on species richness patterns in a model zooplankton community. *Ecology*, **2017**, 98, 1651-1659	4.6	14
74	Community assembly and the functioning of ecosystems: how metacommunity processes alter ecosystems attributes. *Ecology*, **2017**, 98, 909-919	4.6	89
73	Habitat patch size alters the importance of dispersal for species diversity in an experimental freshwater community. *Ecology and Evolution*, **2017**, 7, 5774-5783	2.8	13
72	Global reef fish richness gradients emerge from divergent and scale-dependent component changes. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	11
71	Metacommunity Ecology, Volume 59 **2017**,		128
70	Addition of multiple limiting resources reduces grassland diversity. *Nature*, **2016**, 537, 93-96	50.4	225
69	Bigger data on scale-dependent effects of invasive species on biodiversity cannot overcome confounded analyses: a comment on Stohlgren & Rejmánek (2014). *Biology Letters*, **2015**, 11,	3.6	5
68	Landscape context influences the abundance of amphibians and the strength of their food web interactions in small ponds. *Oikos*, **2015**, 124, 629-638	4	6
67	Disturbance alters beta-diversity but not the relative importance of community assembly mechanisms. *Journal of Ecology*, **2015**, 103, 1291-1299	6	84
66	More individuals drive the species energy–area relationship in an experimental zooplankton community. *Oikos*, **2015**, 124, 1065-1070	4	10
65	Spatial scale resolves the niche versus neutral theory debate. *Journal of Vegetation Science*, **2014**, 25, 319-322	3.1	148
64	Scale-dependent effect sizes of ecological drivers on biodiversity: why standardised sampling is not enough. *Ecology Letters*, **2013**, 16 Suppl 1, 17-26	10	180
63	Invasive plants have scale-dependent effects on diversity by altering species-area relationships. *Science*, **2013**, 339, 316-8	33.3	195
62	Beta-diversity in temperate and tropical forests reflects dissimilar mechanisms of community assembly. *Ecology Letters*, **2013**, 16, 151-7	10	267
61	Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. *Global Ecology and Biogeography*, **2013**, 22, 202-212	6.1	91
60	Dispersal stochasticity mediates species richness in source–sink metacommunities. *Oikos*, **2013**, 122, 395-402	4	21
59	Predators alter the scaling of diversity in prey metacommunities. *Oikos*, **2012**, 121, 1995-2000	4	21
58	Inferring local ecological processes amid species pool influences. *Trends in Ecology and Evolution*, **2012**, 27, 600-7	10.9	147

57	Integrating local breeding pond, landcover, and climate factors in predicting amphibian distributions. *Landscape Ecology*, **2012**, 27, 1183-1196	4.3	12
56	How much lox is a grizzly bear worth?. *PLoS Biology*, **2012**, 10, e1001304	9.7	
55	Response to Comments on "Disentangling the Drivers of ´Diversity Along Latitudinal and Elevational Gradients". *Science*, **2012**, 335, 1573-1573	33.3	7
54	Historical and contemporary factors govern global biodiversity patterns. *PLoS Biology*, **2012**, 10, e1001294	9.7	4
53	Using null models to disentangle variation in community dissimilarity from variation in □diversity. *Ecosphere*, **2011**, 2, art24	3.1	517
52	Disentangling the importance of ecological niches from stochastic processes across scales. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2011**, 366, 2351-63	5.8	784
51	Navigating the multiple meanings of □diversity: a roadmap for the practicing ecologist. *Ecology Letters*, **2011**, 14, 19-28	10	1495
50	Disentangling the drivers of □diversity along latitudinal and elevational gradients. *Science*, **2011**, 333, 1755-8	33.3	482
49	Fear of Parasites: Lone Star Ticks Increase Giving-up Densities in White-Tailed Deer. *Israel Journal of Ecology and Evolution*, **2010**, 56, 313-324	0.8	11
48	Stochastic community assembly causes higher biodiversity in more productive environments. *Science*, **2010**, 328, 1388-91	33.3	604
47	Habitat isolation moderates the strength of top-down control in experimental pond food webs. *Ecology*, **2010**, 91, 637-43	4.6	36
46	Wetland isolation facilitates larval mosquito density through the reduction of predators. *Ecological Entomology*, **2009**, 34, 741-747	2.1	30
45	Predators temper the relative importance of stochastic processes in the assembly of prey metacommunities. *Ecology Letters*, **2009**, 12, 1210-8	10	126
44	Beneath the veil: plant growth form influences the strength of species richness□productivity relationships in forests. *Global Ecology and Biogeography*, **2009**, 18, 416-425	6.1	43
43	Predator-dependent species-area relationships. *American Naturalist*, **2007**, 170, 636-42	3.7	31
42	Increasing isolation reduces predator:prey species richness ratios in aquatic food webs. *Oikos*, **2007**, 116, 1581-1587	4	27
41	Habitat area affects arthropod communities directly and indirectly through top predators. *Ecography*, **2007**, 30, 359-366	6.5	18
40	Inter-annual associations between precipitation and human incidence of West Nile virus in the United States. *Vector-Borne and Zoonotic Diseases*, **2007**, 7, 337-43	2.4	89

39	Drought mediates the importance of stochastic community assembly. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 17430-4	11.5	642
38	Aquatic eutrophication promotes pathogenic infection in amphibians. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 15781-6	11.5	254
37	Interactions between mosquito larvae and species that share the same trophic level. *Annual Review of Entomology*, **2007**, 52, 489-507	21.8	104
36	Disturbance alters habitat isolation's effect on biodiversity in aquatic microcosms. *Oikos*, **2006**, 114, 360-366	4	28
35	Effects of eutrophication and snails on Eurasian watermilfoil (Myriophyllum spicatum) invasion. *Biological Invasions*, **2006**, 8, 1643-1649	2.7	30
34	Implications of Food Web Interactions for Restoration of Missouri Ozark Glade Habitats. *Restoration Ecology*, **2005**, 13, 312-317	3.1	13
33	Towards a really unified theory for metacommunities. *Functional Ecology*, **2005**, 19, 182-186	5.6	122
32	Parasites in the food web: linking amphibian malformations and aquatic eutrophication. *Ecology Letters*, **2004**, 7, 521-526	10	117
31	Connectivity, scale-dependence, and the productivity-diversity relationship. *Ecology Letters*, **2004**, 7, 676-683	10	118
30	Trade-offs in community ecology: linking spatial scales and species coexistence. *Ecology Letters*, **2004**, 7, 69-80	10	550
29	Alternative stable states and regional community structure. *Journal of Theoretical Biology*, **2004**, 227, 359-68	2.3	80
28	DISTURBANCE, PREDATOR, AND RESOURCE INTERACTIONS ALTER CONTAINER COMMUNITY COMPOSITION. *Ecology*, **2004**, 85, 2088-2093	4.6	61
27	COMMUNITY GENETICS: TOWARD A SYNTHESIS. *Ecology*, **2003**, 84, 580-582	4.6	22
26	Community assembly: when should history matter?. *Oecologia*, **2003**, 136, 489-98	2.9	673
25	Strong and weak trophic cascades along a productivity gradient. *Oikos*, **2003**, 101, 187-195	4	87
24	Experimental evidence for alternative stable equilibria in a benthic pond food web. *Ecology Letters*, **2003**, 6, 733-741	10	86
23	Drought-induced mosquito outbreaks in wetlands. *Ecology Letters*, **2003**, 6, 1017-1024	10	180
22	Ecological Niches **2003**,		1259

21	The interaction between predation and competition: a review and synthesis. *Ecology Letters*, **2002**, 5, 302-315	10	512
20	Biodiversity and ecosystem functioning at local and regional spatial scales. *Ecology Letters*, **2002**, 5, 467-470	10	131
19	Spatial scale dictates the productivity-biodiversity relationship. *Nature*, **2002**, 416, 427-30	50.4	602
18	The role of size-specific predation in the evolution and diversification of prey life histories. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 877-87	3.8	76
17	The role of habitat connectivity and landscape geometry in experimental zooplankton metacommunities. *Oikos*, **2002**, 96, 433-440	4	105
16	Plant tolerance and resistance in food webs: community-level predictions and evolutionary implications. *Evolutionary Ecology*, **2000**, 14, 289-314	1.8	48
15	Are there real differences among aquatic and terrestrial food webs?. *Trends in Ecology and Evolution*, **2000**, 15, 408-412	10.9	133
14	THE EFFECTS OF PRODUCTIVITY, HERBIVORY, AND PLANT SPECIES TURNOVER IN GRASSLAND FOOD WEBS. *Ecology*, **2000**, 81, 2485-2497	4.6	149
13	THE EFFECTS OF PRODUCTIVITY, HERBIVORY, AND PLANT SPECIES TURNOVER IN GRASSLAND FOOD WEBS **2000**, 81, 2485		10
12	To Grow or to Reproduce? The Role of Life-History Plasticity in Food Web Dynamics. *American Naturalist*, **1999**, 154, 571-586	3.7	81
11	Food Web Effects of Prey Size Refugia: Variable Interactions and Alternative Stable Equilibria. *American Naturalist*, **1999**, 154, 559-570	3.7	123
10	CENTRAL-PLACE FORAGER EFFECTS ON FOOD WEB DYNAMICS AND SPATIAL PATTERN IN NORTHERN CALIFORNIA MEADOWS. *Ecology*, **1998**, 79, 1236-1245	4.6	39
9	SPECIES TURNOVER AND THE REGULATION OF TROPHIC STRUCTURE. *Annual Review of Ecology, Evolution, and Systematics*, **1997**, 28, 467-494		241
8	Differential Competitive Interactions and the Included Niche: An Experimental Analysis with Grasshoppers. *Oikos*, **1996**, 76, 103	4	27
7	Varying Resource Abundances and Competitive Dynamics. *American Naturalist*, **1996**, 147, 649-654	3.7	15
6	Abiotic Controls of Trophic Cascades in a Simple Grassland Food Chain. *Oikos*, **1996**, 77, 495	4	86
5	Disentangling metacommunity processes using multiple metrics in space and time		2
4	The internal structure of metacommunities. *Oikos*,	4	3

List of Publications

3	Embracing scale-dependence to achieve a deeper understanding of biodiversity and its change across communities	2
2	MoB (Measurement of Biodiversity): a method to separate the scale-dependent effects of species abundance distribution, density, and aggregation on diversity change	2
1	A process-based metacommunity framework linking local and regional scale community ecology	2