# Jonathan M Chase

List of Publications by Year
in descending order



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|---|---|---|---|
| 122 papers | 20,422 citations | 28190 55 h-index | 18075 120 g-index |
| 170 all docs | 170 docs citations | 170 times ranked | 18954 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Navigating the multiple meanings of Î² diversity: a roadmap for the practicing ecologist. Ecology Letters, 2011, 14, 19-28. | 3.0 | 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. | 1.8 | 1,161 |
| 3 | Community assembly: when should history matter?. Oecologia, 2003, 136, 489-498. | 0.9 | 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. | 3.3 | 819 |
| 5 | Stochastic Community Assembly Causes Higher Biodiversity in More Productive Environments. Science, 2010, 328, 1388-1391. | 6.0 | 814 |
| 6 | Using null models to disentangle variation in community dissimilarity from variation in Î±-diversity. Ecosphere, 2011, 2, art24. | 1.0 | 698 |
| 7 | Spatial scale dictates the productivityâ€“biodiversity relationship. Nature, 2002, 416, 427-430. | 13.7 | 686 |
| 8 | Meta-analysis reveals declines in terrestrial but increases in freshwater insect abundances. Science, 2020, 368, 417-420. | 6.0 | 674 |
| 9 | Trade-offs in community ecology: linking spatial scales and species coexistence. Ecology Letters, 2004, 7, 69-80. | 3.0 | 643 |
| 10 | Disentangling the Drivers of Î² Diversity Along Latitudinal and Elevational Gradients. Science, 2011, 333, 1755-1758. | 6.0 | 617 |
| 11 | The interaction between predation and competition: a review and synthesis. Ecology Letters, 2002, 5, 302-315. | 3.0 | 596 |
| 12 | Biodiversity change is uncoupled from species richness trends: Consequences for conservation and monitoring. Journal of Applied Ecology, 2018, 55, 169-184. | 1.9 | 435 |
| 13 | The geography of biodiversity change in marine and terrestrial assemblages. Science, 2019, 366, 339-345. | 6.0 | 385 |
| 14 | Betaâ€diversity in temperate and tropical forests reflects dissimilar mechanisms of community assembly. Ecology Letters, 2013, 16, 151-157. | 3.0 | 370 |
| 15 | Addition of multiple limiting resources reduces grassland diversity. Nature, 2016, 537, 93-96. | 13.7 | 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. | 3.3 | 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. | 6.0 | 261 |

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|---|---|---|---|
| 19 | Scaleâ€dependent effect sizes of ecological drivers on biodiversity: why standardised sampling is not enough. Ecology Letters, 2013, 16, 17-26. | 3.0 | 250 |
| 20 | Drought-induced mosquito outbreaks in wetlands. Ecology Letters, 2003, 6, 1017-1024. | 3.0 | 223 |
| 21 | Ecosystem decay exacerbates biodiversity loss with habitat loss. Nature, 2020, 584, 238-243. | 13.7 | 214 |
| 22 | Embracing scaleâ€dependence to achieve a deeper understanding of biodiversity and its change across communities. Ecology Letters, 2018, 21, 1737-1751. | 3.0 | 204 |
| 23 | Spatial scale resolves the niche versus neutral theory debate. Journal of Vegetation Science, 2014, 25, 319-322. | 1.1 | 197 |
| 24 | A processâ€based metacommunity framework linking local and regional scale community ecology. Ecology Letters, 2020, 23, 1314-1329. | 3.0 | 193 |
| 25 | Inferring local ecological processes amid species pool influences. Trends in Ecology and Evolution, 2012, 27, 600-607. | 4.2 | 188 |
| 26 | THE EFFECTS OF PRODUCTIVITY, HERBIVORY, AND PLANT SPECIES TURNOVER IN GRASSLAND FOOD WEBS. Ecology, 2000, 81, 2485-2497. | 1.5 | 176 |
| 27 | Community assembly and the functioning of ecosystems: how metacommunity processes alter ecosystems attributes. Ecology, 2017, 98, 909-919. | 1.5 | 164 |
| 28 | Are there real differences among aquatic and terrestrial food webs?. Trends in Ecology and Evolution, 2000, 15, 408-412. | 4.2 | 162 |
| 29 | Species richness change across spatial scales. Oikos, 2019, 128, 1079-1091. | 1.2 | 160 |
| 30 | Predators temper the relative importance of stochastic processes in the assembly of prey metacommunities. Ecology Letters, 2009, 12, 1210-1218. | 3.0 | 158 |
| 31 | Biodiversity and ecosystem functioning at local and regional spatial scales. Ecology Letters, 2002, 5, 467-470. | 3.0 | 152 |
| 32 | Towards a really unified theory for metacommunities. Functional Ecology, 2005, 19, 182-186. | 1.7 | 140 |
| 33 | Food Web Effects of Prey Size Refugia: Variable Interactions and Alternative Stable Equilibria. American Naturalist, 1999, 154, 559-570. | 1.0 | 135 |
| 34 | Parasites in the food web: linking amphibian malformations and aquatic eutrophication. Ecology Letters, 2004, 7, 521-526. | 3.0 | 134 |
| 35 | Connectivity, scale-dependence, and the productivity-diversity relationship. Ecology Letters, 2004, 7, 676-683. | 3.0 | 131 |
| 36 | Disturbance alters betaâ€diversity but not the relative importance of community assembly mechanisms. Journal of Ecology, 2015, 103, 1291-1299. | 1.9 | 124 |

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|---|---|---|---|
| 37 | Interactions Between Mosquito Larvae and Species that Share the Same Trophic Level. Annual Review of Entomology, 2007, 52, 489-507. | 5.7 | 122 |
| 38 | Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. Global Ecology and Biogeography, 2013, 22, 202-212. | 2.7 | 121 |
| 39 | The role of habitat connectivity and landscape geometry in experimental zooplankton metacommunities. Oikos, 2002, 96, 433-440. | 1.2 | 118 |
| 40 | Macroecology to Unite All Life, Large and Small. Trends in Ecology and Evolution, 2018, 33, 731-744. | 4.2 | 118 |
| 41 | Integrating the underlying structure of stochasticity into community ecology. Ecology, 2020, 101, e02922. | 1.5 | 113 |
| 42 | Inter-Annual Associations Between Precipitation and Human Incidence of West Nile Virus in the United States. Vector-Borne and Zoonotic Diseases, 2007, 7, 337-343. | 0.6 | 112 |
| 43 | Abiotic Controls of Trophic Cascades in a Simple Grassland Food Chain. Oikos, 1996, 77, 495. | 1.2 | 103 |
| 44 | Alternative stable states and regional community structure. Journal of Theoretical Biology, 2004, 227, 359-368. | 0.8 | 102 |
| 45 | Habitat loss over six decades accelerates regional and local biodiversity loss via changing landscape connectance. Ecology Letters, 2019, 22, 1019-1027. | 3.0 | 99 |
| 46 | Strong and weak trophic cascades along a productivity gradient. Oikos, 2003, 101, 187-195. | 1.2 | 98 |
| 47 | Experimental evidence for alternative stable equilibria in a benthic pond food web. Ecology Letters, 2003, 6, 733-741. | 3.0 | 98 |
| 48 | 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. | 3.0 | 94 |
| 49 | Global patterns and drivers of tree diversity integrated across a continuum of spatial grains. Nature Ecology and Evolution, 2019, 3, 390-399. | 3.4 | 91 |
| 50 | Spatial scale modulates the inference of metacommunity assembly processes. Ecology, 2019, 100, e02576. | 1.5 | 91 |
| 51 | To Grow or to Reproduce? The Role of Lifeâ€History Plasticity in Food Web Dynamics. American Naturalist, 1999, 154, 571-586. | 1.0 | 87 |
| 52 | Measurement of Biodiversity (MoB): A method to separate the scaleâ€dependent effects of species abundance distribution, density, and aggregation on diversity change. Methods in Ecology and Evolution, 2019, 10, 258-269. | 2.2 | 87 |
| 53 | Biodiversity conservation through the lens of metacommunity ecology. Annals of the New York Academy of Sciences, 2020, 1469, 86-104. | 1.8 | 81 |
| 54 | THE ROLE OF SIZE-SPECIFIC PREDATION IN THE EVOLUTION AND DIVERSIFICATION OF PREY LIFE HISTORIES. Evolution; International Journal of Organic Evolution, 2002, 56, 877-887. | 1.1 | 78 |

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|---|---|---|---|
| 55 | DISTURBANCE, PREDATOR, AND RESOURCE INTERACTIONS ALTER CONTAINER COMMUNITY COMPOSITION. Ecology, 2004, 85, 2088-2093. | 1.5 | 74 |
| 56 | We need more realistic climate change experiments for understanding ecosystems of the future. Global Change Biology, 2020, 26, 325-327. | 4.2 | 65 |
| 57 | Lifting the veil: richness measurements fail to detect systematic biodiversity change over three decades. Ecology, 2018, 99, 1316-1326. | 1.5 | 57 |
| 58 | Plant tolerance and resistance in food webs: community-level predictions and evolutionary implications. Evolutionary Ecology, 2000, 14, 289-314. | 0.5 | 51 |
| 59 | CENTRAL-PLACE FORAGER EFFECTS ON FOOD WEB DYNAMICS AND SPATIAL PATTERN IN NORTHERN CALIFORNIA MEADOWS. Ecology, 1998, 79, 1236-1245. | 1.5 | 50 |
| 60 | Beneath the veil: plant growth form influences the strength of species richnessâ€“productivity relationships in forests. Global Ecology and Biogeography, 2009, 18, 416-425. | 2.7 | 49 |
| 61 | A framework for disentangling ecological mechanisms underlying the island speciesâ€“area relationship. Frontiers of Biogeography, 2019, 11, . | 0.8 | 46 |
| 62 | Unifying macroecology and macroevolution to answer fundamental questions about biodiversity. Global Ecology and Biogeography, 2019, 28, 1925-1936. | 2.7 | 44 |
| 63 | Responses of plant diversity to precipitation change are strongest at local spatial scales and in drylands. Nature Communications, 2021, 12, 2489. | 5.8 | 43 |
| 64 | Habitat isolation moderates the strength of topâ€down control in experimental pond food webs. Ecology, 2010, 91, 637-643. | 1.5 | 40 |
| 65 | Wetland isolation facilitates larval mosquito density through the reduction of predators. Ecological Entomology, 2009, 34, 741-747. | 1.1 | 38 |
| 66 | Predatorâ€Dependent Speciesâ€Area Relationships. American Naturalist, 2007, 170, 636-642. | 1.0 | 37 |
| 67 | The geometry of habitat fragmentation: Effects of species distribution patterns on extinction risk due to habitat conversion. Ecology and Evolution, 2019, 9, 2775-2790. | 0.8 | 37 |
| 68 | A crossâ€scale assessment of productivityâ€“diversity relationships. Global Ecology and Biogeography, 2020, 29, 1940-1955. | 2.7 | 35 |
| 69 | Effects of eutrophication and snails on Eurasian watermilfoil (Myriophyllum spicatum) invasion. Biological Invasions, 2006, 8, 1643-1649. | 1.2 | 34 |
| 70 | Increasing isolation reduces predator:prey species richness ratios in aquatic food webs. Oikos, 2007, 116, 1581-1587. | 1.2 | 34 |
| 71 | 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. | 2.7 | 34 |
| 72 | Differential Competitive Interactions and the Included Niche: An Experimental Analysis with Grasshoppers. Oikos, 1996, 76, 103. | 1.2 | 33 |

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|---|---|---|---|
| 73 | General statistical scaling laws for stability in ecological systems. Ecology Letters, 2021, 24, 1474-1486. | 3.0 | 32 |
| 74 | The internal structure of metacommunities. Oikos, 2022, 2022, . | 1.2 | 32 |
| 75 | Disturbance alters habitat isolation's effect on biodiversity in aquatic microcosms. Oikos, 2006, 114, 360-366. | 1.2 | 31 |
| 76 | Predators alter the scaling of diversity in prey metacommunities. Oikos, 2012, 121, 1995-2000. | 1.2 | 30 |
| 77 | mobsim: An <scp>r</scp> package for the simulation and measurement of biodiversity across spatial scales. Methods in Ecology and Evolution, 2018, 9, 1401-1408. | 2.2 | 28 |
| 78 | 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. | 3.3 | 28 |
| 79 | A global database for metacommunity ecology, integrating species, traits, environment and space. Scientific Data, 2020, 7, 6. | 2.4 | 28 |
| 80 | COMMUNITY GENETICS: TOWARD A SYNTHESIS. Ecology, 2003, 84, 580-582. | 1.5 | 26 |
| 81 | Dispersal stochasticity mediates species richness in sourceâ€“sink metacommunities. Oikos, 2013, 122, 395-402. | 1.2 | 26 |
| 82 | Mediterranean marine protected areas have higher biodiversity via increased evenness, not abundance. Journal of Applied Ecology, 2020, 57, 578-589. | 1.9 | 25 |
| 83 | A synthesis of land use impacts on stream biodiversity across metrics and scales. Ecology, 2021, 102, e03498. | 1.5 | 24 |
| 84 | Effects of siteâ€selection bias on estimates of biodiversity change. Conservation Biology, 2021, 35, 688-698. | 2.4 | 22 |
| 85 | Measurement and analysis of interspecific spatial associations as a facet of biodiversity. Ecological Monographs, 2021, 91, e01452. | 2.4 | 22 |
| 86 | Mechanistic reconciliation of community and invasion ecology. Ecosphere, 2021, 12, e03359. | 1.0 | 21 |
| 87 | Habitat area affects arthropod communities directly and indirectly through top predators. Ecography, 2007, 30, 359-366. | 2.1 | 20 |
| 88 | Habitat size modulates the influence of heterogeneity on species richness patterns in a model zooplankton community. Ecology, 2017, 98, 1651-1659. | 1.5 | 19 |
| 89 | Reducing dispersal limitation via seed addition increases species richness but not aboveâ€ground biomass. Ecology Letters, 2020, 23, 1442-1450. | 3.0 | 19 |
| 90 | Knowledge sharing for shared success in the decade on ecosystem restoration. Ecological Solutions and Evidence, 2022, 3, e12117. | 0.8 | 18 |

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|---|---|---|---|
| 91 | Sampling effects drive the speciesâ€“area relationship in lake zooplankton. Oikos, 2020, 129, 124-132. | 1.2 | 17 |
| 92 | InsectChange: a global database of temporal changes in insect and arachnid assemblages. Ecology, 2021, 102, e03354. | 1.5 | 17 |
| 93 | The use of GEDI canopy structure for explaining variation in tree species richness in natural forests. Environmental Research Letters, 2022, 17, 045003. | 2.2 | 17 |
| 94 | Accounting for temporal change in multiple biodiversity patterns improves the inference of metacommunity processes. Ecology, 2022, 103, e3683. | 1.5 | 17 |
| 95 | Integrating local breeding pond, landcover, and climate factors in predicting amphibian distributions. Landscape Ecology, 2012, 27, 1183-1196. | 1.9 | 16 |
| 96 | Habitat patch size alters the importance of dispersal for species diversity in an experimental freshwater community. Ecology and Evolution, 2017, 7, 5774-5783. | 0.8 | 16 |
| 97 | Varying Resource Abundances and Competitive Dynamics. American Naturalist, 1996, 147, 649-654. | 1.0 | 15 |
| 98 | Implications of Food Web Interactions for Restoration of Missouri Ozark Glade Habitats. Restoration Ecology, 2005, 13, 312-317. | 1.4 | 15 |
| 99 | Synthesis reveals that island speciesâ€“area relationships emerge from processes beyond passive sampling. Global Ecology and Biogeography, 2021, 30, 2119-2131. | 2.7 | 15 |
| 100 | THE EFFECTS OF PRODUCTIVITY, HERBIVORY, AND PLANT SPECIES TURNOVER IN GRASSLAND FOOD WEBS. , 2000, 81, 2485. | | 15 |
| 101 | Long-term abundance trends of insect taxa are only weakly correlated. Biology Letters, 2022, 18, 20210554. | 1.0 | 15 |
| 102 | Global reef fish richness gradients emerge from divergent and scale-dependent component changes. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170947. | 1.2 | 14 |
| 103 | A multiscale framework for disentangling the roles of evenness, density, and aggregation on diversity gradients. Ecology, 2021, 102, e03233. | 1.5 | 14 |
| 104 | Response to Comment on â€œMeta-analysis reveals declines in terrestrial but increases in freshwater insect abundancesâ€• Science, 2020, 370, . | 6.0 | 14 |
| 105 | Species loss due to nutrient addition increases with spatial scale in global grasslands. Ecology Letters, 2021, 24, 2100-2112. | 3.0 | 13 |
| 106 | Using coverageâ€based rarefaction to infer nonâ€random species distributions. Ecosphere, 2021, 12, e03745. | 1.0 | 13 |
| 107 | More individuals drive the species energyâ€“area relationship in an experimental zooplankton community. Oikos, 2015, 124, 1065-1070. | 1.2 | 12 |
| 108 | Fear of Parasites: Lone Star Ticks Increase Giving-up Densities in White-Tailed Deer. Israel Journal of Ecology and Evolution, 2010, 56, 313-324. | 0.2 | 11 |

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|---|---|---|---|
| 109 | Scaleâ€dependent effects of conspecific negative density dependence and immigration on biodiversity maintenance. Oikos, 2020, 129, 1072-1083. | 1.2 | 10 |
| 110 | Speciesâ€“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. | 0.8 | 9 |
| 111 | OpenNahele: the open Hawaiian forest plot database. Biodiversity Data Journal, 2018, 6, e28406. | 0.4 | 9 |
| 112 | Increasing climatic decoupling of bird abundances and distributions. Nature Ecology and Evolution, 2022, 6, 1299-1306. | 3.4 | 9 |
| 113 | Response to Comments on â€œDisentangling the Drivers of Î² Diversity Along Latitudinal and Elevational Gradientsâ€. Science, 2012, 335, 1573-1573. | 6.0 | 8 |
| 114 | â€˜Bigger dataâ€™ on scale-dependent effects of invasive species on biodiversity cannot overcome confounded analyses: a comment on Stohlgren & RejmÃ¡nek (2014). Biology Letters, 2015, 11, 20150103. | 1.0 | 8 |
| 115 | Frag SAD : A database of diversity and species abundance distributions from habitat fragments. Ecology, 2019, 100, e02861. | 1.5 | 8 |
| 116 | Quantifying effort needed to estimate species diversity from citizen science data. Ecosphere, 2022, 13, . | 1.0 | 7 |
| 117 | Landscape context influences the abundance of amphibians and the strength of their food web interactions in small ponds. Oikos, 2015, 124, 629-638. | 1.2 | 6 |
| 118 | Historical and Contemporary Factors Govern Global Biodiversity Patterns. PLoS Biology, 2012, 10, e1001294. | 2.6 | 5 |
| 119 | Understanding plant communities of the future requires filling knowledge gaps. Global Change Biology, 2020, 26, 328-329. | 4.2 | 4 |
| 120 | Ecological traits underlying interspecific variation in climate matching of birds. Global Ecology and Biogeography, 2022, 31, 1021-1034. | 2.7 | 4 |
| 121 | Revisiting global trends in freshwater insect biodiversity: A reply. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1501. | 2.8 | 2 |
| 122 | How Much Lox Is a Grizzly Bear Worth?. PLoS Biology, 2012, 10, e1001304. | 2.6 | 0 |