

# Daniel C Reuman

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

4,197  
citations

147786

31  
h-index

118840

62  
g-index

71  
all docs

71  
docs citations

71  
times ranked

7462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of 100 fundamental ecological questions. <i>Journal of Ecology</i> , 2013, 101, 58-67.	4.0	605
2	CONSUMERâ€™RESOURCE BODY-SIZE RELATIONSHIPS IN NATURAL FOOD WEBS. <i>Ecology</i> , 2006, 87, 2411-2417.	3.2	568
3	Global patterns in predatorâ€™prey size relationships reveal size dependency of trophic transfer efficiency. <i>Ecology</i> , 2010, 91, 222-232.	3.2	252
4	Extinction Debt and Windows of Conservation Opportunity in the Brazilian Amazon. <i>Science</i> , 2012, 337, 228-232.	12.6	200
5	Priority research areas for ecosystem services in a changing world. <i>Journal of Applied Ecology</i> , 2009, 46, 1139-1144.	4.0	154
6	The geography of spatial synchrony. <i>Ecology Letters</i> , 2017, 20, 801-814.	6.4	116
7	Five Years of Experimental Warming Increases the Biodiversity and Productivity of Phytoplankton. <i>PLoS Biology</i> , 2015, 13, e1002324.	5.6	111
8	Ecological Networks in a Changing Climate. <i>Advances in Ecological Research</i> , 2010, , 71-138.	2.7	110
9	Three allometric relations of population density to body mass: theoretical integration and empirical tests in 149 food webs. <i>Ecology Letters</i> , 2008, 11, 1216-1228.	6.4	106
10	Impacts of Warming on the Structure and Functioning of Aquatic Communities. <i>Advances in Ecological Research</i> , 2012, 47, 81-176.	2.7	106
11	The relationship between body mass and field metabolic rate among individual birds and mammals. <i>Journal of Animal Ecology</i> , 2013, 82, 1009-1020.	2.8	105
12	Changes in large-scale climate alter spatial synchrony of aphid pests. <i>Nature Climate Change</i> , 2016, 6, 610-613.	18.8	98
13	Cheddar: analysis and visualisation of ecological communities in R. <i>Methods in Ecology and Evolution</i> , 2013, 4, 99-104.	5.2	93
14	International migration beyond gravity: A statistical model for use in population projections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15269-15274.	7.1	85
15	Climate change impacts in multispecies systems: drought alters food web size structure in a field experiment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2990-2997.	4.0	74
16	Unexpected changes in community size structure in a natural warming experiment. <i>Nature Climate Change</i> , 2017, 7, 659-663.	18.8	70
17	Across ecosystem comparisons of size structure: methods, approaches and prospects. <i>Oikos</i> , 2011, 120, 550-563.	2.7	69
18	A metabolic perspective on competition and body size reductions with warming. <i>Journal of Animal Ecology</i> , 2014, 83, 59-69.	2.8	69

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19	Climate change-related regime shifts have altered spatial synchrony of plankton dynamics in the North Sea. <i>Global Change Biology</i> , 2016, 22, 2069-2080.	9.5	66
20	Using landscape history to predict biodiversity patterns in fragmented landscapes. <i>Ecology Letters</i> , 2013, 16, 1221-1233.	6.4	65
21	Chapter 1 Allometry of Body Size and Abundance in 166 Food Webs. <i>Advances in Ecological Research</i> , 2009, , 1-44.	2.7	60
22	Food webs are more than the sum of their tritrophic parts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22335-22340.	7.1	59
23	Power spectra reveal the influence of stochasticity on nonlinear population dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18860-18865.	7.1	47
24	An empirical link between the spectral colour of climate and the spectral colour of field populations in the context of climate change. <i>Journal of Animal Ecology</i> , 2011, 80, 1042-1048.	2.8	44
25	Dimensions of some affine Deligne-Lusztig varieties. <i>Annales Scientifiques De L'Ecole Normale Supérieure</i> , 2006, 39, 467-511.	0.8	42
26	Affine Deligne-Lusztig varieties in affine flag varieties. <i>Compositio Mathematica</i> , 2010, 146, 1339-1382.	0.8	39
27	Do founder size, genetic diversity and structure influence rates of expansion of North American grey squirrels in Europe?. <i>Diversity and Distributions</i> , 2014, 20, 918-930.	4.1	39
28	A global geography of synchrony for terrestrial vegetation. <i>Global Ecology and Biogeography</i> , 2017, 26, 878-888.	5.8	39
29	Diatoms can be an important exception to temperature-size rules at species and community levels of organization. <i>Global Change Biology</i> , 2013, 19, 3540-3552.	9.5	37
30	Estimating Relative Energy Fluxes Using the Food Web, Species Abundance, and Body Size. <i>Advances in Ecological Research</i> , 2005, 36, 137-182.	2.7	35
31	A global geography of synchrony for marine phytoplankton. <i>Global Ecology and Biogeography</i> , 2017, 26, 867-877.	5.8	35
32	Trophic links' length and slope in the Tuesday Lake food web with species' body mass and numerical abundance. <i>Journal of Animal Ecology</i> , 2004, 73, 852-866.	2.8	34
33	Synchrony is more than its top-down and climatic parts: interacting Moran effects on phytoplankton in British seas. <i>PLoS Computational Biology</i> , 2019, 15, e1006744.	3.2	33
34	A cure for the plague of parameters: constraining models of complex population dynamics with allometries. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131901.	2.6	32
35	Synchrony affects Taylor's law in theory and data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6788-6793.	7.1	32
36	The marine diversity spectrum. <i>Journal of Animal Ecology</i> , 2014, 83, 963-979.	2.8	30

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37	Colour of environmental noise affects the nonlinear dynamics of cycling, stage-structured populations. <i>Ecology Letters</i> , 2008, 11, 820-830.	6.4	28
38	Bacterial adaptation to sublethal antibiotic gradients can change the ecological properties of multitrophic microbial communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142920.	2.6	26
39	Are Changes in the Mean or Variability of Climate Signals More Important for Long-Term Stochastic Growth Rate?. <i>PLoS ONE</i> , 2013, 8, e63974.	2.5	23
40	Using DNA profiling to investigate human-mediated translocations of an invasive species. <i>Biological Conservation</i> , 2016, 195, 97-105.	4.1	22
41	Copulas and their potential for ecology. <i>Advances in Ecological Research</i> , 2020, 62, 409-468.	2.7	22
42	The dependence of synchrony on timescale and geography in freshwater plankton. <i>Limnology and Oceanography</i> , 2019, 64, 483-502.	3.1	18
43	The long and the short of it: Mechanisms of synchronous and compensatory dynamics across temporal scales. <i>Ecology</i> , 2022, 103, e3650.	3.2	18
44	Using geography to infer the importance of dispersal for the synchrony of freshwater plankton. <i>Oikos</i> , 2018, 127, 403-414.	2.7	17
45	Weather and regional crop composition variation drive spatial synchrony of lepidopteran agricultural pests. <i>Ecological Entomology</i> , 2020, 45, 573-582.	2.2	17
46	Impact of unintentional selective harvesting on the population dynamics of red grouse. <i>Journal of Animal Ecology</i> , 2011, 80, 1258-1268.	2.8	16
47	Grey squirrels in central Italy: a new threat for endemic red squirrel subspecies. <i>Biological Invasions</i> , 2014, 16, 2339-2350.	2.4	16
48	Mixture or mosaic? Genetic patterns in UK grey squirrels support a human-mediated "long-jump" invasion mechanism. <i>Diversity and Distributions</i> , 2016, 22, 566-577.	4.1	16
49	Temporal scale of environmental correlations affects ecological synchrony. <i>Ecology Letters</i> , 2018, 21, 1800-1811.	6.4	16
50	Chapter 2 Human and Environmental Factors Influence Soil Faunal Abundance "Mass Allometry and Structure. <i>Advances in Ecological Research</i> , 2009, , 45-85.	2.7	15
51	The spatial synchrony of species richness and its relationship to ecosystem stability. <i>Ecology</i> , 2021, 102, e03486.	3.2	15
52	A new variance ratio metric to detect the timescale of compensatory dynamics. <i>Ecosphere</i> , 2020, 11, e03114.	2.2	14
53	Synchronous effects produce cycles in deer populations and deer-vehicle collisions. <i>Ecology Letters</i> , 2021, 24, 337-347.	6.4	13
54	Local Interactions Lead to Pathogen-Driven Change to Host Population Dynamics. <i>Current Biology</i> , 2009, 19, 1660-1664.	3.9	11

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55	Self-organizing cicada choruses respond to the local sound and light environment. <i>Ecology and Evolution</i> , 2020, 10, 4471-4482.	1.9	11
56	Rapid surrogate testing of wavelet coherences. <i>EPJ Nonlinear Biomedical Physics</i> , 2017, 5, 1.	0.8	11
57	A new approach to interspecific synchrony in population ecology using tail association. <i>Ecology and Evolution</i> , 2020, 10, 12764-12776.	1.9	10
58	Microscale geography of synchrony in a serpentine plant community. <i>Journal of Ecology</i> , 2021, 109, 750-762.	4.0	10
59	The effects of dispersal on spatial synchrony in metapopulations differ by timescale. <i>Oikos</i> , 2021, 130, 1762-1772.	2.7	10
60	Tail-dependent spatial synchrony arises from nonlinear driver-response relationships. <i>Ecology Letters</i> , 2022, 25, 1189-1201.	6.4	10
61	Formulas for the dimensions of some affine Deligne-Lusztig varieties. <i>Michigan Mathematical Journal</i> , 2004, 52, .	0.4	9
62	Proximate determinants of Taylor's law slopes. <i>Journal of Animal Ecology</i> , 2019, 88, 484-494.	2.8	9
63	Multidimensional metrics of niche space for use with diverse analytical techniques. <i>Scientific Reports</i> , 2017, 7, 41599.	3.3	8
64	Tail associations in ecological variables and their impact on extinction risk. <i>Ecosphere</i> , 2020, 11, e03132.	2.2	8
65	Response to Comment on "Extinction Debt and Windows of Conservation Opportunity in the Brazilian Amazon". <i>Science</i> , 2013, 339, 271-271.	12.6	7
66	Predicting Abundances of <i>Aedes mcintoshi</i> , a primary Rift Valley fever virus mosquito vector. <i>PLoS ONE</i> , 2019, 14, e0226617.	2.5	4
67	Species relationships in the extremes and their influence on community stability. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200343.	4.0	4
68	Community management indicators can conflate divergent phenomena: two challenges and a decomposition-based solution. <i>Journal of Applied Ecology</i> , 2017, 54, 883-893.	4.0	3
69	Preferential Allocation of Benefits and Resource Competition among Recipients Allows Coexistence of Symbionts within Hosts. <i>American Naturalist</i> , 2022, 199, 468-479.	2.1	1