Daniel C Reuman

List of Publications by Year
in descending order

69 papers	4,197 citations	147801 31 h-index	118850 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. Journal of Ecology, 2013, 101, 58-67.	4.0	605
2	CONSUMERâ€“RESOURCE BODY-SIZE RELATIONSHIPS IN NATURAL FOOD WEBS. Ecology, 2006, 87, 2411-2417.	3.2	568
3	Global patterns in predatorâ€“prey size relationships reveal size dependency of trophic transfer efficiency. Ecology, 2010, 91, 222-232.	3.2	252
4	Extinction Debt and Windows of Conservation Opportunity in the Brazilian Amazon. Science, 2012, 337, 228-232.	12.6	200
5	Priority research areas for ecosystem services in a changing world. Journal of Applied Ecology, 2009, 46, 1139-1144.	4.0	154
6	The geography of spatial synchrony. Ecology Letters, 2017, 20, 801-814.	6.4	116
7	Five Years of Experimental Warming Increases the Biodiversity and Productivity of Phytoplankton. PLoS Biology, 2015, 13, e1002324.	5.6	111
8	Ecological Networks in a Changing Climate. Advances in Ecological Research, 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. Ecology Letters, 2008, 11, 1216-1228.	6.4	106
10	Impacts of Warming on the Structure and Functioning of Aquatic Communities. Advances in Ecological Research, 2012, 47, 81-176.	2.7	106
11	The relationship between body mass and field metabolic rate among individual birds and mammals. Journal of Animal Ecology, 2013, 82, 1009-1020.	2.8	105
12	Changes in large-scale climate alter spatial synchrony of aphid pests. Nature Climate Change, 2016, 6, 610-613.	18.8	98
13	Cheddar: analysis and visualisation of ecological communities in R. Methods in Ecology and Evolution, 2013, 4, 99-104.	5.2	93
14	International migration beyond gravity: A statistical model for use in population projections. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15269-15274.	7.1	85
15	Climate change impacts in multispecies systems: drought alters food web size structure in a field experiment. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 2990-2997.	4.0	74
16	Unexpected changes in community size structure in a natural warming experiment. Nature Climate Change, 2017, 7, 659-663.	18.8	70
17	Across ecosystem comparisons of size structure: methods, approaches and prospects. Oikos, 2011, 120, 550-563.	2.7	69
18	A metabolic perspective on competition and body size reductions with warming. Journal of Animal Ecology, 2014, 83, 59-69.	2.8	69

#	Article	IF	Citations
19	Climate changeâ€related regime shifts have altered spatial synchrony of plankton dynamics in the North Sea. Global Change Biology, 2016, 22, 2069-2080.	9.5	66
20	Using landscape history to predict biodiversity patterns in fragmented landscapes. Ecology Letters, 2013, 16, 1221-1233.	6.4	65
21	Chapter 1 Allometry of Body Size and Abundance in 166 Food Webs. Advances in Ecological Research, 2009, , 1-44.	2.7	60
22	Food webs are more than the sum of their tritrophic parts. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22335-22340.	7.1	59
23	Power spectra reveal the influence of stochasticity on nonlinear population dynamics. Proceedings of the National Academy of Sciences of the United States of America, 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. Journal of Animal Ecology, 2011, 80, 1042-1048.	2.8	44
25	Dimensions of some affine Deligneâ€“Lusztig varieties. Annales Scientifiques De L'Ecole Normale Superieure, 2006, 39, 467-511.	0.8	42
26	Affine Deligneâ€“Lusztig varieties in affine flag varieties. Compositio Mathematica, 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?. Diversity and Distributions, 2014, 20, 918-930.	4.1	39
28	A global geography of synchrony for terrestrial vegetation. Global Ecology and Biogeography, 2017, 26, 878-888.	5.8	39
29	Diatoms can be an important exception to temperatureâ€“size rules at species and community levels of organization. Global Change Biology, 2013, 19, 3540-3552.	9.5	37
30	Estimating Relative Energy Fluxes Using the Food Web, Species Abundance, and Body Size. Advances in Ecological Research, 2005, 36, 137-182.	2.7	35
31	A global geography of synchrony for marine phytoplankton. Global Ecology and Biogeography, 2017, 26, 867-877.	5.8	35
32	Trophic linksâ€™ length and slope in the Tuesday Lake food web with speciesâ€™ body mass and numerical abundance. Journal of Animal Ecology, 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. PLoS Computational Biology, 2019, 15, e1006744.	3.2	33
34	A cure for the plague of parameters: constraining models of complex population dynamics with allometries. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131901.	2.6	32
35	Synchrony affects Taylorâ€™s law in theory and data. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6788-6793.	7.1	32
36	The marine diversity spectrum. Journal of Animal Ecology, 2014, 83, 963-979.	2.8	30

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

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