Brett A Melbourne

List of Publications by Year
in descending order

72 papers	10,118 citations	156536 32 h-index	100535 70 g-index
73 all docs	73 docs citations	73 times ranked	15476 citing authors

#	Article	IF	Citations
1	Nitrogen increases earlyâ€stage and slows lateâ€stage decomposition across diverse grasslands. Journal of Ecology, 2022, 110, 1376-1389.	1.9	12
2	Initial abundance and stochasticity influence competitive outcome in communities. Journal of Animal Ecology, 2021, 90, 1691-1700.	1.3	6
3	Harnessing the NEON data revolution to advance open environmental science with a diverse and dataâ€capable community. Ecosphere, 2021, 12, .	1.0	15
4	Interspecific competition slows range expansion and shapes range boundaries. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26854-26860.	3.3	36
5	Ecoâ€evolutionary dynamics of range expansion. Ecology, 2020, 101, e03139.	1.5	79
6	Global impacts of fertilization and herbivore removal on soil net nitrogen mineralization are modulated by local climate and soil properties. Global Change Biology, 2020, 26, 7173-7185.	4.2	25
7	Community context and dispersal stochasticity drive variation in spatial spread. Journal of Animal Ecology, 2020, 89, 2657-2664.	1.3	5
8	Interspecific Chemical Competition Between Tribolium castaneum and Tribolium confusum (Coleoptera: Tenebrionidae) Reduces Fecundity and Hastens Development Time. Annals of the Entomological Society of America, 2020, 113, 216-222.	1.3	7
9	Accounting for environmental change in continuous-time stochastic population models. Theoretical Ecology, 2019, 12, 31-48.	0.4	9
10	Shrinking skinks: lizard body size declines in a long-term forest fragmentation experiment. Landscape Ecology, 2019, 34, 1395-1409.	1.9	8
11	Demographic stochasticity alters expected outcomes in experimental and simulated nonâ€neutral communities. Oikos, 2019, 128, 1704-1715.	1.2	4
12	Success and failure of ecological management is highly variable in an experimental test. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23169-23173.	3.3	8
13	Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. Ecosystems, 2019, 22, 1466-1477.	1.6	34
14	Stochastic processes drive rapid genomic divergence during experimental range expansions. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190231.	1.2	8
15	When can competition and dispersal lead to checkerboard distributions?. Journal of Animal Ecology, 2019, 88, 269-276.	1.3	21
16	Spatial and temporal variability of fragmentation effects in a long term, eucalypt forest fragmentation experiment. Landscape Ecology, 2018, 33, 609-623.	1.9	4
17	Generalist predator's niche shifts reveal ecosystem changes in an experimentally fragmented landscape. Ecography, 2018, 41, 1209-1219.	2.1	12
18	Experimental investigation of alternative transmission functions: Quantitative evidence for the importance of nonlinear transmission dynamics in hostâ€"parasite systems. Journal of Animal Ecology, 2018, 87, 703-715.	1.3	12

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19	Parsing propagule pressure: Number, not size, of introductions drives colonization success in a novel environment. Ecology and Evolution, 2018, 8, 8043-8054.	0.8	13
20	Genetic and demographic founder effects have longâ€term fitness consequences for colonising populations. Ecology Letters, 2017, 20, 436-444.	3.0	56
21	Shortâ€and longâ€term effects of habitat fragmentation differ but are predicted by response to the matrix. Ecology, 2017, 98, 807-819.	1.5	27
22	The power of evolutionary rescue is constrained by genetic load. Evolutionary Applications, 2017, 10, 731-741.	1.5	26
23	Estimating extinction risk with minimal data. Biological Conservation, 2017, 213, 194-202.	1.9	2
24	Rapid adaptive evolution in novel environments acts as an architect of population range expansion. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13501-13506.	3.3	121
25	Rapid trait evolution drives increased speed and variance in experimental range expansions. Nature Communications, 2017, 8, 14303.	5.8	101
26	Differential and delayed response of two ant species to habitat fragmentation via the introduction of a pine matrix. Ecological Entomology, 2016, 41, 554-561.	1.1	1
27	Linking metacommunity paradigms to spatial coexistence mechanisms. Ecology, 2016, 97, 2436-2446.	1.5	77
28	Differentiating between niche and neutral assembly in metacommunities using null models of Î²â€diversity. Oikos, 2016, 125, 778-789.	1.2	123
29	The use of traits to interpret responses to large scale - edge effects: a study of epigaeic beetle assemblages across a Eucalyptus forest and pine plantation edge. Landscape Ecology, 2016, 31, 1815-1831.	1.9	8
30	Integrative modelling reveals mechanisms linking productivity and plant species richness. Nature, 2016, 529, 390-393.	13.7	564
31	Decreases in average bacterial community rRNA operon copy number during succession. ISME Journal, 2016, 10, 1147-1156.	4.4	146
32	Grassland productivity limited by multiple nutrients. Nature Plants, 2015, 1, 15080.	4.7	403
33	Three types of rescue can avert extinction in a changing environment. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10557-10562.	3.3	138
34	Anthropogenic nitrogen deposition predicts local grassland primary production worldwide. Ecology, 2015, 96, 1459-1465.	1.5	143
35	Habitat fragmentation and its lasting impact on Earthâ€™s ecosystems. Science Advances, 2015, 1, e1500052.	4.7	2,541
36	Reply to Wootton and Pfister: The search for general context should include synthesis with laboratory model systems. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5904-E5904.	3.3	2

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37	Plant speciesâ€™ origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. Nature Communications, 2015, 6, 7710.	5.8	143
38	A continentâ€wide study reveals clear relationships between regional abiotic conditions and postâ€dispersal seed predation. Journal of Biogeography, 2015, 42, 662-670.	1.4	23
39	An Evaluation of Two Hands-On Lab Styles for Plant Biodiversity in Undergraduate Biology. CBE Life Sciences Education, 2014, 13, 493-503.	1.1	0
40	Changes in plant species density in an experimentally fragmented forest landscape: Are the effects scale-dependent?. Austral Ecology, 2014, 39, 416-423.	0.7	7
41	Anthropogenicâ€based regionalâ€scale factors most consistently explain plotâ€level exotic diversity in grasslands. Global Ecology and Biogeography, 2014, 23, 802-810.	2.7	32
42	Eutrophication weakens stabilizing effects of diversity in natural grasslands. Nature, 2014, 508, 521-525.	13.7	409
43	Making the right choice: testing the drivers of asymmetric infections within hosts and their consequences for pathology. Oikos, 2014, 123, 875-885.	1.2	9
44	Herbivores and nutrients control grassland plant diversity via light limitation. Nature, 2014, 508, 517-520.	13.7	669
45	The roles of demography and genetics in the early stages of colonization. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141073.	1.2	76
46	Impact of pre-lab learning activities, a post-lab written report, and content reduction on evolution-based learning in an undergraduate plant biodiversity lab. Evolution: Education and Outreach, 2014, 7, .	0.3	5
47	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. Global Change Biology, 2013, 19, 3677-3687.	4.2	70
48	Lifeâ€history constraints in grassland plant species: a growthâ€defence tradeâ€off is the norm. Ecology Letters, 2013, 16, 513-521.	3.0	165
49	Changes in assembly processes in soil bacterial communities following a wildfire disturbance. ISME Journal, 2013, 7, 1102-1111.	4.4	354
50	Regional Contingencies in the Relationship between Aboveground Biomass and Litter in the Worldâ€™s Grasslands. PLoS ONE, 2013, 8, e54988.	1.1	27
51	Response to Comments on â€œProductivity Is a Poor Predictor of Plant Species Richnessâ€. Science, 2012, 335, 1441-1441.	6.0	30
52	Abundance of introduced species at home predicts abundance away in herbaceous communities. Ecology Letters, 2011, 14, 274-281.	3.0	88
53	Productivity Is a Poor Predictor of Plant Species Richness. Science, 2011, 333, 1750-1753.	6.0	463
54	Statistical models for monitoring and predicting effects of climate change and invasion on the free-living insects and a spider from sub-Antarctic Heard Island. Polar Biology, 2011, 34, 119-125.	0.5	18

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55	Using traits of species to understand responses to land use change: Birds and livestock grazing in the Australian arid zone. Biological Conservation, 2010, 143, 78-85.	1.9	41
56	Highly Variable Spread Rates in Replicated Biological Invasions: Fundamental Limits to Predictability. Science, 2009, 325, 1536-1539.	6.0	170
57	Extinction risk depends strongly on factors contributing to stochasticity. Nature, 2008, 454, 100-103.	13.7	443
58	Speciesâ€™ traits predict the effects of disturbance and productivity on diversity. Ecology Letters, 2008, 11, 348-356.	3.0	141
59	The status of two exotic terrestrial Crustacea on sub-Antarctic Macquarie Island. Polar Record, 2008, 44, 15-23.	0.4	12
60	Invasion in a heterogeneous world: resistance, coexistence or hostile takeover?. Ecology Letters, 2007, 10, 77-94.	3.0	343
61	The tails of two geckos tell the story of dispersal in a fragmented landscape. Molecular Ecology, 2007, 16, 3289-3291.	2.0	4
62	THE SCALE TRANSITION: SCALING UP POPULATION DYNAMICS WITH FIELD DATA. Ecology, 2006, 87, 1478-1488.	1.5	64
63	Scaling up population dynamics: integrating theory and data. Oecologia, 2005, 145, 178-186.	0.9	53
64	SPATIAL HETEROGENEITY EXPLAINS THE SCALE DEPENDENCE OF THE NATIVEâ€"EXOTIC DIVERSITY RELATIONSHIP. Ecology, 2005, 86, 1602-1610.	1.5	375
65	The spatial spread of invasions: new developments in theory and evidence. Ecology Letters, 2004, 8, 91-101.	3.0	727
66	Species Survival in Fragmented Landscapes: Where to From Here?. Biodiversity and Conservation, 2004, 13, 275-284.	1.2	29
67	A Low-Cost Sensor for Measuring Spatiotemporal Variation of Light Intensity on the Streambed. Journal of the North American Benthological Society, 2003, 22, 143-151.	3.0	7
68	EFFECTS OF WITHIN- AND BETWEEN-PATCH PROCESSES ON COMMUNITY DYNAMICS IN A FRAGMENTATION EXPERIMENT. Ecology, 2001, 82, 1830-1846.	1.5	82
69	EFFECTS OF WITHIN- AND BETWEEN-PATCH PROCESSES ON COMMUNITY DYNAMICS IN A FRAGMENTATION EXPERIMENT. , 2001, 82, 1830.		12
70	Bias in the effect of habitat structure on pitfall traps: An experimental evaluation. Austral Ecology, 1999, 24, 228-239.	0.7	191
71	Statistical models of invertebrate distribution on Macquarie Island: a tool to assess climate change and local human impacts. Polar Biology, 1999, 21, 240-250.	0.5	25
72	The invertebrates of sub-Antarctic Bishop Island. Polar Biology, 1997, 17, 455-458.	0.5	13