

# Eric Allan

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

7,234  
citations

117625

34  
h-index

128289

60  
g-index

66  
all docs

66  
docs citations

66  
times ranked

8802  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intraspecific trait changes have large impacts on community functional composition but do not affect ecosystem function. <i>Journal of Ecology</i> , 2022, 110, 644-658.	4.0	20
2	Partitioning the effects of plant diversity on ecosystem functions at different trophic levels. <i>Ecological Monographs</i> , 2022, 92, .	5.4	13
3	Worldwide diversity of endophytic fungi and insects associated with dormant tree twigs. <i>Scientific Data</i> , 2022, 9, 62.	5.3	8
4	Effects of fertilization and irrigation on vascular plant species richness, functional composition and yield in mountain grasslands. <i>Journal of Environmental Management</i> , 2021, 279, 111629.	7.8	18
5	Stakeholder priorities determine the impact of an alien tree invasion on ecosystem multifunctionality. <i>People and Nature</i> , 2021, 3, 658-672.	3.7	18
6	Contrasting responses of above- and belowground diversity to multiple components of land-use intensity. <i>Nature Communications</i> , 2021, 12, 3918.	12.8	81
7	Plantâ€‘Soil Feedbacks and Temporal Dynamics of Plant Diversityâ€‘Productivity Relationships. <i>Trends in Ecology and Evolution</i> , 2021, 36, 651-661.	8.7	74
8	The dynamics of vegetation grazed by a foodâ€‘limited population of Soay sheep on St Kilda. <i>Journal of Ecology</i> , 2021, 109, 3988-4006.	4.0	6
9	Both diversity and functional composition affect productivity and water use efficiency in experimental temperate grasslands. <i>Journal of Ecology</i> , 2021, 109, 3877-3891.	4.0	12
10	Tree diversity is key for promoting the diversity and abundance of forestâ€‘associated taxa in Europe. <i>Oikos</i> , 2020, 129, 133-146.	2.7	80
11	Inferring competitive outcomes, ranks and intransitivity from empirical data: A comparison of different methods. <i>Methods in Ecology and Evolution</i> , 2020, 11, 117-128.	5.2	8
12	Predicting species abundances in a grassland biodiversity experiment: Tradeâ€‘offs between model complexity and generality. <i>Journal of Ecology</i> , 2020, 108, 774-787.	4.0	23
13	The impact of invasive species on social-ecological systems: Relating supply and use of selected provisioning ecosystem services. <i>Ecosystem Services</i> , 2020, 41, 101055.	5.4	38
14	Land-use intensity alters networks between biodiversity, ecosystem functions, and services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28140-28149.	7.1	164
15	An excess of niche differences maximizes ecosystem functioning. <i>Nature Communications</i> , 2020, 11, 4180.	12.8	33
16	Sick plants in grassland communities: a growthâ€‘defense tradeâ€‘off is the main driver of fungal pathogen abundance. <i>Ecology Letters</i> , 2020, 23, 1349-1359.	6.4	68
17	Decomposition disentangled: A test of the multiple mechanisms by which nitrogen enrichment alters litter decomposition. <i>Functional Ecology</i> , 2020, 34, 1485-1496.	3.6	30
18	Towards the development of general rules describing landscape heterogeneityâ€‘multifunctionality relationships. <i>Journal of Applied Ecology</i> , 2019, 56, 168-179.	4.0	42

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19	Direct and indirect effects of invasive species: Biodiversity loss is a major mechanism by which an invasive tree affects ecosystem functioning. <i>Journal of Ecology</i> , 2019, 107, 2660-2672.	4.0	130
20	Are traded forest tree seeds a potential source of nonnative pests?. <i>Ecological Applications</i> , 2019, 29, e01971.	3.8	32
21	How do trees respond to species mixing in experimental compared to observational studies?. <i>Ecology and Evolution</i> , 2019, 9, 11254-11265.	1.9	8
22	Biotic predictors complement models of bat and bird responses to climate and tree diversity in European forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182193.	2.6	21
23	Identifying the tree species compositions that maximize ecosystem functioning in European forests. <i>Journal of Applied Ecology</i> , 2019, 56, 733-744.	4.0	58
24	Specialisation and diversity of multiple trophic groups are promoted by different forest features. <i>Ecology Letters</i> , 2019, 22, 170-180.	6.4	92
25	Intransitive competition is common across five major taxonomic groups and is driven by productivity, competitive rank and functional traits. <i>Journal of Ecology</i> , 2018, 106, 852-864.	4.0	36
26	Everything you always wanted to know about intransitive competition but were afraid to ask. <i>Journal of Ecology</i> , 2018, 106, 807-814.	4.0	38
27	Redefining ecosystem multifunctionality. <i>Nature Ecology and Evolution</i> , 2018, 2, 427-436.	7.8	503
28	Functional ecology and imperfect detection of species. <i>Methods in Ecology and Evolution</i> , 2018, 9, 917-928.	5.2	20
29	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , 2018, 21, 31-42.	6.4	74
30	Multiple forest attributes underpin the supply of multiple ecosystem services. <i>Nature Communications</i> , 2018, 9, 4839.	12.8	182
31	Direct and indirect effects of land use on bryophytes in grasslands. <i>Science of the Total Environment</i> , 2018, 644, 60-67.	8.0	31
32	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. <i>Ecology Letters</i> , 2017, 20, 1414-1426.	6.4	244
33	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. <i>Basic and Applied Ecology</i> , 2017, 23, 1-73.	2.7	307
34	Plant diversity has contrasting effects on herbivore and parasitoid abundance in <i>Centaurea jacea</i> flower heads. <i>Ecology and Evolution</i> , 2017, 7, 9319-9332.	1.9	11
35	Jack-of-all-trades effects drive biodiversity–ecosystem multifunctionality relationships in European forests. <i>Nature Communications</i> , 2016, 7, 11109.	12.8	185
36	Land-use intensification causes multitrophic homogenization of grassland communities. <i>Nature</i> , 2016, 540, 266-269.	27.8	404

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37	Locally rare species influence grassland ecosystem multifunctionality. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150269.	4.0	117
38	Biodiversity at multiple trophic levels is needed for ecosystem multifunctionality. <i>Nature</i> , 2016, 536, 456-459.	27.8	526
39	Biotic homogenization can decrease landscape-scale forest multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3557-3562.	7.1	196
40	Intransitive competition is widespread in plant communities and maintains their species richness. <i>Ecology Letters</i> , 2015, 18, 790-798.	6.4	149
41	A missing link between facilitation and plant species coexistence: nurses benefit generally rare species more than common ones. <i>Journal of Ecology</i> , 2015, 103, 1183-1189.	4.0	39
42	Further re-analyses looking for effects of phylogenetic diversity on community biomass and stability. <i>Functional Ecology</i> , 2015, 29, 1607-1610.	3.6	13
43	Land use intensification alters ecosystem multifunctionality via loss of biodiversity and changes to functional composition. <i>Ecology Letters</i> , 2015, 18, 834-843.	6.4	578
44	Grassland management intensification weakens the associations among the diversities of multiple plant and animal taxa. <i>Ecology</i> , 2015, 96, 1492-1501.	3.2	75
45	Species richness, but not phylogenetic diversity, influences community biomass production and temporal stability in a re-examination of 16 grassland biodiversity studies. <i>Functional Ecology</i> , 2015, 29, 615-626.	3.6	124
46	Endozoochory by slugs can increase bryophyte establishment and species richness. <i>Oikos</i> , 2015, 124, 331-336.	2.7	13
47	Interannual variation in land-use intensity enhances grassland multidiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 308-313.	7.1	243
48	Temporal Changes in Randomness of Bird Communities across Central Europe. <i>PLoS ONE</i> , 2014, 9, e112347.	2.5	18
49	Functionally and phylogenetically diverse plant communities key to soil biota. <i>Ecology</i> , 2013, 94, 1878-1885.	3.2	80
50	Experimental plant communities develop phylogenetically overdispersed abundance distributions during assembly. <i>Ecology</i> , 2013, 94, 465-477.	3.2	38
51	A comparison of the strength of biodiversity effects across multiple functions. <i>Oecologia</i> , 2013, 173, 223-237.	2.0	91
52	Epigenetic diversity increases the productivity and stability of plant populations. <i>Nature Communications</i> , 2013, 4, 2875.	12.8	163
53	Enemy damage of exotic plant species is similar to that of natives and increases with productivity. <i>Journal of Ecology</i> , 2013, 101, 388-399.	4.0	27
54	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013, 15, 281-291.	2.7	179

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55	The impact of plant diversity and fertilization on fitness of a generalist grasshopper. <i>Basic and Applied Ecology</i> , 2013, 14, 246-254.	2.7	16
56	Plant diversity improves protection against soil-borne pathogens by fostering antagonistic bacterial communities. <i>Journal of Ecology</i> , 2012, 100, 597-604.	4.0	218
57	Contrasting effects of insect and molluscan herbivores on plant diversity in a long-term field experiment. <i>Ecology Letters</i> , 2011, 14, 1246-1253.	6.4	92
58	More diverse plant communities have higher functioning over time due to turnover in complementary dominant species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17034-17039.	7.1	227
59	Bottom-up effects of plant diversity on multitrophic interactions in a biodiversity experiment. <i>Nature</i> , 2010, 468, 553-556.	27.8	786
60	Foliar fungal pathogens and grassland biodiversity. <i>Ecology</i> , 2010, 91, 2572-2582.	3.2	105