

Daniel S Falster

List of Publications by Year in descending order

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65
papers

13,868
citations

125106

35
h-index

116156

66
g-index

79
all docs

79
docs citations

79
times ranked

17403
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant Ecological Strategies: Some Leading Dimensions of Variation Between Species. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2002, 33, 125-159.	6.7	2,309
2	Bivariate line-fitting methods for allometry. <i>Biological Reviews</i> , 2006, 81, 259.	4.7	1,870
3	Assessing the generality of global leaf trait relationships. <i>New Phytologist</i> , 2005, 166, 485-496.	3.5	1,704
4	smatr 3â€“ an R package for estimation and inference about allometric lines. <i>Methods in Ecology and Evolution</i> , 2012, 3, 257-259.	2.2	1,244
5	TRY plant trait database â€“ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
6	Modulation of leaf economic traits and trait relationships by climate. <i>Global Ecology and Biogeography</i> , 2005, 14, 411-421.	2.7	669
7	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , 2016, 529, 204-207.	13.7	655
8	Plant height and evolutionary games. <i>Trends in Ecology and Evolution</i> , 2003, 18, 337-343.	4.2	552
9	Leaf size and angle vary widely across species: what consequences for light interception?. <i>New Phytologist</i> , 2003, 158, 509-525.	3.5	455
10	Angiosperm wood structure: Global patterns in vessel anatomy and their relation to wood density and potential conductivity. <i>American Journal of Botany</i> , 2010, 97, 207-215.	0.8	355
11	Small-seeded species produce more seeds per square metre of canopy per year, but not per individual per lifetime. <i>Journal of Ecology</i> , 2004, 92, 384-396.	1.9	269
12	The Coral Trait Database, a curated database of trait information for coral species from the global oceans. <i>Scientific Data</i> , 2016, 3, 160017.	2.4	189
13	A Trait-Based Approach to Advance Coral Reef Science. <i>Trends in Ecology and Evolution</i> , 2016, 31, 419-428.	4.2	161
14	Alternative height strategies among 45 dicot rain forest species from tropical Queensland, Australia. <i>Journal of Ecology</i> , 2005, 93, 521-535.	1.9	154
15	Open Science principles for accelerating trait-based science across the Tree of Life. <i>Nature Ecology and Evolution</i> , 2020, 4, 294-303.	3.4	144
16	Testing the generality of above-ground biomass allometry across plant functional types at the continent scale. <i>Global Change Biology</i> , 2016, 22, 2106-2124.	4.2	133
17	On the link between functional traits and growth rate: meta-analysis shows effects change with plant size, as predicted. <i>Journal of Ecology</i> , 2016, 104, 1488-1503.	1.9	132
18	BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015, 96, 1445-1445.	1.5	122

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19	Influence of four major plant traits on average height, leaf area cover, net primary productivity, and biomass density in single-species forests: a theoretical investigation. <i>Journal of Ecology</i> , 2011, 99, 148-164.	1.9	109
20	Functional distinctiveness of major plant lineages. <i>Journal of Ecology</i> , 2014, 102, 345-356.	1.9	108
21	Cross-species patterns in the coordination between leaf and stem traits, and their implications for plant hydraulics. <i>Physiologia Plantarum</i> , 2006, 127, 445-456.	2.6	107
22	Multitrait successional forest dynamics enable diverse competitive coexistence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2719-E2728.	3.3	98
23	Light interception efficiency explained by two simple variables: a test using a diversity of small to medium-sized woody plants. <i>New Phytologist</i> , 2012, 193, 397-408.	3.5	96
24	Organizing principles for vegetation dynamics. <i>Nature Plants</i> , 2020, 6, 444-453.	4.7	95
25	How functional traits influence plant growth and shade tolerance across the life cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6789-E6798.	3.3	90
26	Quantifying and understanding reproductive allocation schedules in plants. <i>Ecology and Evolution</i> , 2015, 5, 5521-5538.	0.8	84
27	Controls on declining carbon balance with leaf age among 10 woody species in Australian woodland: do leaves have zero daily net carbon balances when they die?. <i>New Phytologist</i> , 2009, 183, 153-166.	3.5	82
28	Tradeoffs between height growth rate, stem persistence and maximum height among plant species in a post-fire succession. <i>Oikos</i> , 2005, 111, 57-66.	1.2	77
29	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021, 8, 254.	2.4	73
30	Ontogenetic variation in light requirements of juvenile rainforest evergreens. <i>Functional Ecology</i> , 2008, 22, 454-459.	1.7	70
31	Sexual dimorphism in trait variability and its eco-evolutionary and statistical implications. <i>ELife</i> , 2020, 9, .	2.8	64
32	A General Model for the Scaling of Offspring Size and Adult Size. <i>American Naturalist</i> , 2008, 172, 299-317.	1.0	54
33	Simulation of tree-ring widths with a model for primary production, carbon allocation, and growth. <i>Biogeosciences</i> , 2014, 11, 6711-6724.	1.3	42
34	Lifetime return on investment increases with leaf lifespan among 10 Australian woodland species. <i>New Phytologist</i> , 2012, 193, 409-419.	3.5	41
35	Plant functional traits – linkages among stem anatomy, plant performance and life history. <i>New Phytologist</i> , 2010, 185, 348-351.	3.5	36
36	Detecting myrtle rust (<i>Austropuccinia psidii</i>) on lemon myrtle trees using spectral signatures and machine learning. <i>Plant Pathology</i> , 2018, 67, 1114-1121.	1.2	36

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37	Sapling strength and safety: the importance of wood density in tropical forests. <i>New Phytologist</i> , 2006, 171, 237-239.	3.5	35
38	Plant diversity and drought: The role of deep roots. <i>Ecological Modelling</i> , 2014, 290, 85-93.	1.2	33
39	Leaf mass per area, not total leaf area, drives differences in above-ground biomass distribution among woody plant functional types. <i>New Phytologist</i> , 2016, 212, 368-376.	3.5	30
40	Functional diversity of the Australian flora: Strong links to species richness and climate. <i>Journal of Vegetation Science</i> , 2021, 32, e13018.	1.1	28
41	plant: A package for modelling forest trait ecology and evolution. <i>Methods in Ecology and Evolution</i> , 2016, 7, 136-146.	2.2	26
42	Partitioning mortality into growth-dependent and growth-independent hazards across 203 tropical tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12459-12464.	3.3	25
43	Linking abundance, occupancy and spatial structure: an empirical test of a neutral model in an open-forest woody plant community in eastern Australia. <i>Journal of Biogeography</i> , 2002, 28, 317-323.	1.4	16
44	AnimalTraits - a curated animal trait database for body mass, metabolic rate and brain size. <i>Scientific Data</i> , 2022, 9, .	2.4	15
45	Seedlings of temperate rainforest conifer and angiosperm trees differ in leaf area display. <i>Annals of Botany</i> , 2012, 110, 177-188.	1.4	14
46	Sapwood biomass carbon in northern boreal and temperate forests. <i>Global Ecology and Biogeography</i> , 2019, 28, 640-660.	2.7	12
47	Environmental associations of abundance-weighted functional traits in Australian plant communities. <i>Basic and Applied Ecology</i> , 2022, 58, 98-109.	1.2	11
48	Trait ecology of startup plants. <i>New Phytologist</i> , 2022, 235, 842-847.	3.5	11
49	An evolutionary attractor model for sapwood cross section in relation to leaf area. <i>Journal of Theoretical Biology</i> , 2012, 303, 98-109.	0.8	10
50	Investment in reproduction for 14 iteroparous perennials is large and associated with other life-history and functional traits. <i>Journal of Ecology</i> , 2018, 106, 1338-1348.	1.9	8
51	Branch Thinning and the Large-Scale, Self-Similar Structure of Trees. <i>American Naturalist</i> , 2018, 192, E37-E47.	1.0	7
52	Modelling the distribution of larval fish in a western boundary current using a multi-voyage database. <i>Reviews in Fish Biology and Fisheries</i> , 2021, 31, 399-415.	2.4	7
53	Emergent Shapes of Trait-Based Competition Functions from Resource-Based Models: A Gaussian Is Not Normal in Plant Communities. <i>American Naturalist</i> , 2021, 198, 253-267.	1.0	7
54	Effects of bud-flushing strategies on tree growth. <i>Tree Physiology</i> , 2018, 38, 1384-1393.	1.4	6

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55	Latitudinal effects on crown shape evolution. <i>Ecology and Evolution</i> , 2018, 8, 8149-8158.	0.8	6
56	Motivating data contributions via a distinct career currency. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202830.	1.2	6
57	Evolutionary coordination between offspring size at independence and adult size. <i>Journal of Ecology</i> , 2009, 97, 23-26.	1.9	5
58	A novel approach for estimating growth and mortality of fish larvae. <i>ICES Journal of Marine Science</i> , 2021, 78, 2684-2699.	1.2	5
59	The Mortality/Growth ratio of larval fish and the slope of the zooplankton size spectrum. <i>Fish and Fisheries</i> , 2022, 23, 750-757.	2.7	5
60	Ontogenetic variation in light interception, self-shading and biomass distribution of seedlings of the conifer <i>Araucaria araucana</i> (Molina) K. Koch. <i>Revista Chilena De Historia Natural</i> , 2006, 79, 321.	0.5	4
61	Datastorr: a workflow and package for delivering successive versions of 'evolving data' directly into R. <i>GigaScience</i> , 2019, 8, .	3.3	3
62	Climate shapes community flowering periods across biomes. <i>Journal of Biogeography</i> , 2022, 49, 1205-1218.	1.4	3
63	Unstable DNA Repair Genes Shaped by Their Own Sequence Modifying Phenotypes. <i>Journal of Molecular Evolution</i> , 2010, 70, 266-274.	0.8	2
64	The conservative low phosphorus niche in Proteaceae. <i>Plant and Soil</i> , 2021, 462, 89-93.	1.8	1
65	Evolution of diversity and dominance of companies in online activity. <i>PLoS ONE</i> , 2021, 16, e0249993.	1.1	1