

# Daniel S Falster

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

13,868  
citations

109321

35  
h-index

102487

66  
g-index

79  
all docs

79  
docs citations

79  
times ranked

15527  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental associations of abundance-weighted functional traits in Australian plant communities. <i>Basic and Applied Ecology</i> , 2022, 58, 98-109.	2.7	11
2	The Mortality/Growth ratio of larval fish and the slope of the zooplankton size spectrum. <i>Fish and Fisheries</i> , 2022, 23, 750-757.	5.3	5
3	Trait ecology of startup plants. <i>New Phytologist</i> , 2022, 235, 842-847.	7.3	11
4	Climate shapes community flowering periods across biomes. <i>Journal of Biogeography</i> , 2022, 49, 1205-1218.	3.0	3
5	AnimalTraits - a curated animal trait database for body mass, metabolic rate and brain size. <i>Scientific Data</i> , 2022, 9, .	5.3	15
6	Functional diversity of the Australian flora: Strong links to species richness and climate. <i>Journal of Vegetation Science</i> , 2021, 32, e13018.	2.2	28
7	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.	4.9	7
8	Motivating data contributions via a distinct career currency. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202830.	2.6	6
9	The conservative low phosphorus niche in Proteaceae. <i>Plant and Soil</i> , 2021, 462, 89-93.	3.7	1
10	Evolution of diversity and dominance of companies in online activity. <i>PLoS ONE</i> , 2021, 16, e0249993.	2.5	1
11	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.	2.1	7
12	A novel approach for estimating growth and mortality of fish larvae. <i>ICES Journal of Marine Science</i> , 2021, 78, 2684-2699.	2.5	5
13	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021, 8, 254.	5.3	73
14	TRY plant trait database "enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
15	Organizing principles for vegetation dynamics. <i>Nature Plants</i> , 2020, 6, 444-453.	9.3	95
16	Open Science principles for accelerating trait-based science across the Tree of Life. <i>Nature Ecology and Evolution</i> , 2020, 4, 294-303.	7.8	144
17	Sexual dimorphism in trait variability and its eco-evolutionary and statistical implications. <i>ELife</i> , 2020, 9, .	6.0	64
18	Sapwood biomass carbon in northern boreal and temperate forests. <i>Global Ecology and Biogeography</i> , 2019, 28, 640-660.	5.8	12

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19	Datatorr: a workflow and package for delivering successive versions of 'evolving data' directly into R. <i>GigaScience</i> , 2019, 8, .	6.4	3
20	Branch Thinning and the Large-Scale, Self-Similar Structure of Trees. <i>American Naturalist</i> , 2018, 192, E37-E47.	2.1	7
21	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.	2.4	36
22	Effects of bud-flushing strategies on tree growth. <i>Tree Physiology</i> , 2018, 38, 1384-1393.	3.1	6
23	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.	7.1	25
24	Latitudinal effects on crown shape evolution. <i>Ecology and Evolution</i> , 2018, 8, 8149-8158.	1.9	6
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.	7.1	90
26	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.	4.0	8
27	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.	7.1	98
28	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.	7.3	30
29	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.	9.5	133
30	The Coral Trait Database, a curated database of trait information for coral species from the global oceans. <i>Scientific Data</i> , 2016, 3, 160017.	5.3	189
31	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.	4.0	132
32	plant: A package for modelling forest trait ecology and evolution. <i>Methods in Ecology and Evolution</i> , 2016, 7, 136-146.	5.2	26
33	A Trait-Based Approach to Advance Coral Reef Science. <i>Trends in Ecology and Evolution</i> , 2016, 31, 419-428.	8.7	161
34	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , 2016, 529, 204-207.	27.8	655
35	Quantifying and understanding reproductive allocation schedules in plants. <i>Ecology and Evolution</i> , 2015, 5, 5521-5538.	1.9	84
36	BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015, 96, 1445-1445.	3.2	122

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37	Simulation of tree-ring widths with a model for primary production, carbon allocation, and growth. <i>Biogeosciences</i> , 2014, 11, 6711-6724.	3.3	42
38	Functional distinctiveness of major plant lineages. <i>Journal of Ecology</i> , 2014, 102, 345-356.	4.0	108
39	Plant diversity and drought: The role of deep roots. <i>Ecological Modelling</i> , 2014, 290, 85-93.	2.5	33
40	Seedlings of temperate rainforest conifer and angiosperm trees differ in leaf area display. <i>Annals of Botany</i> , 2012, 110, 177-188.	2.9	14
41	Lifetime return on investment increases with leaf lifespan among 10 Australian woodland species. <i>New Phytologist</i> , 2012, 193, 409-419.	7.3	41
42	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.	7.3	96
43	An evolutionary attractor model for sapwood cross section in relation to leaf area. <i>Journal of Theoretical Biology</i> , 2012, 303, 98-109.	1.7	10
44	smatr 3.0: an R package for estimation and inference about allometric lines. <i>Methods in Ecology and Evolution</i> , 2012, 3, 257-259.	5.2	1,244
45	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.	4.0	109
46	Unstable DNA Repair Genes Shaped by Their Own Sequence Modifying Phenotypes. <i>Journal of Molecular Evolution</i> , 2010, 70, 266-274.	1.8	2
47	Plant functional traits – linkages among stem anatomy, plant performance and life history. <i>New Phytologist</i> , 2010, 185, 348-351.	7.3	36
48	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.	1.7	355
49	Evolutionary coordination between offspring size at independence and adult size. <i>Journal of Ecology</i> , 2009, 97, 23-26.	4.0	5
50	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.	7.3	82
51	Ontogenetic variation in light requirements of juvenile rainforest evergreens. <i>Functional Ecology</i> , 2008, 22, 454-459.	3.6	70
52	A General Model for the Scaling of Offspring Size and Adult Size. <i>American Naturalist</i> , 2008, 172, 299-317.	2.1	54
53	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.	1.2	4
54	Bivariate line-fitting methods for allometry. <i>Biological Reviews</i> , 2006, 81, 259-291.	10.4	1,870

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55	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.	5.2	107
56	Sapling strength and safety: the importance of wood density in tropical forests. <i>New Phytologist</i> , 2006, 171, 237-239.	7.3	35
57	Assessing the generality of global leaf trait relationships. <i>New Phytologist</i> , 2005, 166, 485-496.	7.3	1,704
58	Modulation of leaf economic traits and trait relationships by climate. <i>Global Ecology and Biogeography</i> , 2005, 14, 411-421.	5.8	669
59	Alternative height strategies among 45 dicot rain forest species from tropical Queensland, Australia. <i>Journal of Ecology</i> , 2005, 93, 521-535.	4.0	154
60	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.	2.7	77
61	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.	4.0	269
62	Leaf size and angle vary widely across species: what consequences for light interception?. <i>New Phytologist</i> , 2003, 158, 509-525.	7.3	455
63	Plant height and evolutionary games. <i>Trends in Ecology and Evolution</i> , 2003, 18, 337-343.	8.7	552
64	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
65	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.	3.0	16