

Matthew I Daws

List of Publications by Year in descending order

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76
papers

3,073
citations

147726

31
h-index

168321

53
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77
all docs

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docs citations

77
times ranked

2720
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological correlates of ex situ seed longevity: a comparative study on 195 species. <i>Annals of Botany</i> , 2009, 104, 57-69.	1.4	235
2	The relationship between seed mass and mean time to germination for 1037 tree species across five tropical forests. <i>Functional Ecology</i> , 2009, 23, 203-210.	1.7	155
3	Topographic position affects the water regime in a semideciduous tropical forest in Panamá. <i>Plant and Soil</i> , 2002, 238, 79-89.	1.8	150
4	Differences in seed germination responses may promote coexistence of four sympatric <i>Piper</i> species. <i>Functional Ecology</i> , 2002, 16, 258-267.	1.7	128
5	Prediction of Desiccation Sensitivity in Seeds of Woody Species: A Probabilistic Model Based on Two Seed Traits and 104 Species. <i>Annals of Botany</i> , 2006, 97, 667-674.	1.4	124
6	Impact of red:far red ratios on germination of temperate forest herbs in relation to shade tolerance, seed mass and persistence in the soil. <i>Functional Ecology</i> , 2007, 21, 1055-1062.	1.7	124
7	Ecological correlates of seed desiccation tolerance in tropical African dryland trees. <i>American Journal of Botany</i> , 2004, 91, 863-870.	0.8	122
8	Developmental heat sum influences recalcitrant seed traits in <i>Aesculus hippocastanum</i> across Europe. <i>New Phytologist</i> , 2004, 162, 157-166.	3.5	118
9	Butenolide from plant-derived smoke enhances germination and seedling growth of arable weed species. <i>Plant Growth Regulation</i> , 2007, 51, 73-82.	1.8	114
10	Smoke-derived butenolide: Towards understanding its biological effects. <i>South African Journal of Botany</i> , 2009, 75, 1-7.	1.2	112
11	Physical dormancy in seeds: a game of hide and seek?. <i>New Phytologist</i> , 2013, 198, 496-503.	3.5	98
12	Germination Responses to Water Potential in Neotropical Pioneers Suggest Large-seeded Species Take More Risks. <i>Annals of Botany</i> , 2008, 102, 945-951.	1.4	90
13	Seed-based approach for identifying flora at risk from climate warming. <i>Austral Ecology</i> , 2011, 36, 923-935.	0.7	75
14	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021, 8, 254.	2.4	73
15	Patterns in the seed germination response to smoke in plants from the Cape Floristic Region, South Africa. <i>South African Journal of Botany</i> , 2003, 69, 514-525.	1.2	72
16	Variable desiccation tolerance in <i>Acer pseudoplatanus</i> seeds in relation to developmental conditions: a case of phenotypic recalcitrance?. <i>Functional Plant Biology</i> , 2006, 33, 59.	1.1	69
17	Prescribed burning of northern heathlands: <i>Calluna vulgaris</i> germination cues and seed-bank dynamics. <i>Plant Ecology</i> , 2010, 207, 245-256.	0.7	64
18	Campanulaceae: a family with small seeds that require light for germination. <i>Annals of Botany</i> , 2014, 113, 135-143.	1.4	54

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19	Effects of topographic position, leaf litter and seed size on seedling demography in a semi-deciduous tropical forest in Panamá. <i>Plant Ecology</i> , 2005, 179, 93-105.	0.7	48
20	The Role of Botanic Gardens in the Science and Practice of Ecological Restoration. <i>Conservation Biology</i> , 2011, 25, no-no.	2.4	48
21	Do invasive species have bigger seeds? Evidence from intra- and inter-specific comparisons. <i>South African Journal of Botany</i> , 2007, 73, 138-143.	1.2	44
22	Thermal buffering capacity of the germination phenotype across the environmental envelope of the Cactaceae. <i>Global Change Biology</i> , 2017, 23, 5309-5317.	4.2	44
23	A comparative study of desiccation responses of seeds of Asian Evergreen Oaks, <i>Quercus</i> subgenus <i>Cyclobalanopsis</i> and <i>Quercus</i> subgenus <i>Quercus</i> . <i>South African Journal of Botany</i> , 2012, 78, 47-54.	1.2	42
24	Allometric relationships between seed mass and seedling characteristics reveal trade-offs for neotropical gap-dependent species. <i>Oecologia</i> , 2007, 154, 445-454.	0.9	40
25	Pre- and Post-harvest Influences on Seed Dormancy Status of an Australian Goodeniaceae species, <i>Goodenia fascicularis</i> . <i>Annals of Botany</i> , 2008, 102, 93-101.	1.4	40
26	Seed mass variation potentially masks a single critical water content in recalcitrant seeds. <i>Seed Science Research</i> , 2004, 14, 185-195.	0.8	38
27	Mimicking a Semi-arid Tropical Environment Achieves Dormancy Alleviation for Seeds of Australian Native Goodeniaceae and Asteraceae. <i>Annals of Botany</i> , 2008, 101, 701-708.	1.4	38
28	Two-hundred-year seed survival of <i>Leucospermum</i> and two other woody species from the Cape Floristic region, South Africa. <i>Seed Science Research</i> , 2007, 17, 73-79.	0.8	37
29	Rates of Water Loss and Uptake in Recalcitrant Fruits of <i>Quercus</i> Species Are Determined by Pericarp Anatomy. <i>PLoS ONE</i> , 2012, 7, e47368.	1.1	35
30	Butenolide from plant-derived smoke functions as a strigolactone analogue: Evidence from parasitic weed seed germination. <i>South African Journal of Botany</i> , 2008, 74, 116-120.	1.2	34
31	Management-driven evolution in a domesticated ecosystem. <i>Biology Letters</i> , 2014, 10, 20131082.	1.0	34
32	Long-term restoration success of re-sprouter understorey species is facilitated by protection from herbivory and a reduction in competition. <i>Plant Ecology</i> , 2015, 216, 565-576.	0.7	32
33	Long-term data suggest jarrah forest establishment at restored mine sites is resistant to climate variability. <i>Journal of Ecology</i> , 2015, 103, 78-89.	1.9	31
34	Nitrogen and phosphorus fertilizer regime affect jarrah forest restoration after bauxite mining in Western Australia. <i>Applied Vegetation Science</i> , 2013, 16, 610-618.	0.9	30
35	Loss of desiccation tolerance during germination in neo-tropical pioneer seeds: implications for seed mortality and germination characteristics. <i>Seed Science Research</i> , 2007, 17, 273-281.	0.8	29
36	Alternating temperature combined with darkness resets base temperature for germination (T_b) in photoblastic seeds of <i>Lippia</i> and <i>Aloysia</i> (Verbenaceae). <i>Plant Biology</i> , 2017, 19, 41-45.	1.8	24

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37	Physiological dormancy in forbs native to south-west Queensland: Diagnosis and classification. <i>South African Journal of Botany</i> , 2008, 74, 208-213.	1.2	23
38	Comparative germination ecology of the endemic <i>Centranthus amazonum</i> (Valerianaceae) and its widespread congener <i>Centranthus ruber</i> . <i>Plant Species Biology</i> , 2010, 25, 165-172.	0.6	23
39	Conditional cold avoidance drives between-population variation in germination behaviour in <i>Calluna vulgaris</i> . <i>Annals of Botany</i> , 2013, 112, 801-810.	1.4	23
40	Phosphorus fertilisation and large legume species affect jarrah forest restoration after bauxite mining. <i>Forest Ecology and Management</i> , 2015, 354, 10-17.	1.4	23
41	Extreme thermo-tolerance in seeds of desert succulents is related to maximum annual temperature. <i>South African Journal of Botany</i> , 2007, 73, 262-265.	1.2	21
42	Seed mass and germination in Asteraceae species of Argentina. <i>Seed Science and Technology</i> , 2009, 37, 786-790.	0.6	18
43	Germination requirements of the alpine endemic <i>Silene elisabethae</i> Jan: effects of cold stratification, light and GA3. <i>Seed Science and Technology</i> , 2009, 37, 79-87.	0.6	17
44	Effect of high temperature on chalazal plug removal and germination in <i>Apeiba tibourbou</i> Aubl.. <i>Seed Science and Technology</i> , 2006, 34, 221-225.	0.6	16
45	Physical seed dormancy in <i>Collaea argentina</i> (Fabaceae) and <i>Abutilon pauciflorum</i> (Malvaceae) after 4 years storage. <i>Seed Science and Technology</i> , 2010, 38, 777-782.	0.6	16
46	Glutathione half-cell reduction potential as a seed viability marker of the potential oilseed crop <i>Vernonia galamensis</i> . <i>Industrial Crops and Products</i> , 2010, 32, 687-691.	2.5	16
47	Habitat-linked temperature requirements for fruit germination in <i>Quercus</i> species: A comparative study of <i>Quercus</i> subgenus <i>Cyclobalanopsis</i> (Asian evergreen oaks) and <i>Quercus</i> subgenus <i>Quercus</i> . <i>South African Journal of Botany</i> , 2015, 100, 108-113.	1.2	16
48	Pre- and post-harvest influences on physiological dormancy alleviation of an Australian Asteraceae species: <i>Actinobole uliginosum</i> (A. Gray) H. Eichler. <i>Seed Science Research</i> , 2008, 18, 191-199.	0.8	15
49	Enduring effects of large legumes and phosphorus fertiliser on jarrah forest restoration 15 years after bauxite mining. <i>Forest Ecology and Management</i> , 2019, 438, 204-214.	1.4	15
50	Sensitivity of seedling growth to phosphorus supply in six tree species of the Australian Great Western Woodlands. <i>Australian Journal of Botany</i> , 2019, 67, 390.	0.3	14
51	Seed dormancy and germination ecology of <i>Lamyropsis microcephala</i> : a mountain endemic species of Sardinia (Italy). <i>Seed Science and Technology</i> , 2009, 37, 491-497.	0.6	13
52	The where, when and what of phosphorus fertilisation for seedling establishment in a biodiverse jarrah forest restoration after bauxite mining in Western Australia. <i>Ecological Engineering</i> , 2020, 153, 105907.	1.6	13
53	Seed germination of <i>Echinopsis schickendantzii</i> (Cactaceae): the effects of constant and alternating temperatures. <i>Seed Science and Technology</i> , 2011, 39, 219-224.	0.6	12
54	Nutrient enrichment diminishes plant diversity and density, and alters long-term ecological trajectories, in a biodiverse forest restoration. <i>Ecological Engineering</i> , 2021, 165, 106222.	1.6	12

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55	Effects of developmental heat sum on fruit traits of clonal lines of <i>Quercus petraea</i> grown under controlled conditions. <i>Plant Growth Regulation</i> , 2011, 64, 203-206.	1.8	11
56	Climate drives patterns of seed traits in <i>Quercus</i> species across China. <i>New Phytologist</i> , 2022, 234, 1629-1638.	3.5	11
57	A standardised Landsat time series (1973–2016) of forest leaf area index using pseudoinvariant features and spectral vegetation index isolines and a catchment hydrology application. <i>Remote Sensing Applications: Society and Environment</i> , 2017, 6, 1-14.	0.8	10
58	Effectiveness of plant guards in reducing grazing of <i>Tetraria capillaris</i> in restored bauxite mines in Western Australia. <i>South African Journal of Botany</i> , 2013, 87, 4-8.	1.2	9
59	Effects of temperature, light and pre-chilling on germination of <i>Rhamnus persicifolia</i> , an endemic tree species of Sardinia (Italy). <i>Seed Science and Technology</i> , 2009, 37, 758-764.	0.6	7
60	Too much of a good thing: phosphorus over-fertilisation in rehabilitated landscapes of high biodiversity value. , 2019, , .		7
61	Seed size and chilling affect germination of <i>Larix decidua</i> Mill. seeds. <i>Seed Science and Technology</i> , 2007, 35, 508-513.	0.6	6
62	Is broad-scale smoke-water application always a useful tool for improving seedling emergence in post-mining restoration? Evidence from jarrah forest restoration in Western Australia. <i>South African Journal of Botany</i> , 2014, 90, 109-113.	1.2	6
63	The crypsis hypothesis explained: a reply to Jayasuriya et al. (2015). <i>Seed Science Research</i> , 2015, 25, 402-408.	0.8	6
64	Phosphorus supply affects seedling growth of mycorrhizal but not cluster-root forming jarrah-forest species. <i>Plant and Soil</i> , 2022, 472, 577-594.	1.8	6
65	Pressure – time dependency of vacuum degassing as a rapid method for viability assessment using tetrazolium chloride: a comparative study of 17 <i>Pinus</i> species. <i>Seed Science and Technology</i> , 2006, 34, 475-483.	0.6	5
66	Sources of variation in germination of <i>Xanthorrhoea johnsonii</i> (Xanthorrhoeaceae) seeds: maternal plant and seed mass effects. <i>Seed Science and Technology</i> , 2008, 36, 657-666.	0.6	4
67	Germination and dormancy breaking requirements for <i>Vernonia galamensis</i> (Asteraceae). <i>Seed Science and Technology</i> , 2009, 37, 1-9.	0.6	4
68	Nestedness patterns reveal impacts of reduced rainfall on seedling establishment in restored jarrah forest. <i>Forest Ecology and Management</i> , 2018, 427, 242-249.	1.4	4
69	Beyond species richness and community composition: Using plant functional diversity to measure restoration success in jarrah forest. <i>Applied Vegetation Science</i> , 2021, 24, e12607.	0.9	4
70	Applied phosphorus has long-term impacts on vegetation responses in restored jarrah forest. , 2019, , .		4
71	Responses of <i>Liriope platyphylla</i> F.T. Wang & T. Tang and <i>Ophiopogon japonicus</i> (L.f.) Ker Gawl. seeds to desiccation. <i>Seed Science and Technology</i> , 2007, 35, 129-133.	0.6	3
72	Ecological and morphological seed traits of <i>Polygala sardoa</i> and <i>P. sinisica</i> : A comparative study on two endemic species of Sardinia. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2010, 205, 825-831.	0.6	3

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73	Replicated versus un-replicated factorial experiments for preliminary investigation of seed germination and dormancy: alternative approaches using fewer seeds. <i>Seed Science and Technology</i> , 2011, 39, 93-111.	0.6	3
74	The benefits of fertiliser application on tree growth are transient in restored jarrah forest. <i>Trees, Forests and People</i> , 2021, 5, 100112.	0.8	3
75	Onset of Dormancy, Dormancy Levels, and Appropriate Seed Production Environment for Two Subspecies of <i>Vernonia galamensis</i> (Cass.) Less. <i>Journal of New Seeds</i> , 2010, 11, 16-27.	0.3	2
76	Mass propagation of Austral Bracken Fern (<i>Pteridium esculentum</i>) sporophytes from in vitro gametophyte cultures. <i>South African Journal of Botany</i> , 2014, 91, 6-8.	1.2	2