

Mark C Brundrett

List of Publications by Citations

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69
papers

7,130
citations

37
h-index

73
g-index

73
ext. papers

8,237
ext. citations

5
avg, IF

6.68
L-index

#	Paper	IF	Citations
69	Coevolution of roots and mycorrhizas of land plants. <i>New Phytologist</i> , 2002 , 154, 275-304	9.8	959
68	Mycorrhizal associations and other means of nutrition of vascular plants: understanding the global diversity of host plants by resolving conflicting information and developing reliable means of diagnosis. <i>Plant and Soil</i> , 2009 , 320, 37-77	4.2	869
67	Evolutionary history of mycorrhizal symbioses and global host plant diversity. <i>New Phytologist</i> , 2018 , 220, 1108-1115	9.8	451
66	Efficient lipid staining in plant material with sudan red 7B or fluorol [correction of fluoral] yellow 088 in polyethylene glycol-glycerol. <i>Biotechnic and Histochemistry</i> , 1991 , 66, 111-6	1.8	407
65	Mycorrhizas in Natural Ecosystems. <i>Advances in Ecological Research</i> , 1991 , 21, 171-313	4.6	394
64	A new method for observing the morphology of vesicular- \bar{r} buscular mycorrhizae. <i>Canadian Journal of Botany</i> , 1984 , 62, 2128-2134		371
63	A berberine-aniline blue fluorescent staining procedure for suberin, lignin, and callose in plant tissue. <i>Protoplasma</i> , 1988 , 146, 133-142	3.4	292
62	Plant mineral nutrition in ancient landscapes: high plant species diversity on infertile soils is linked to functional diversity for nutritional strategies. <i>Plant and Soil</i> , 2010 , 334, 11-31	4.2	278
61	Diversity and classification of mycorrhizal associations. <i>Biological Reviews</i> , 2004 , 79, 473-95	13.5	274
60	Rampant gene loss in the underground orchid <i>Rhizanthella gardneri</i> highlights evolutionary constraints on plastid genomes. <i>Molecular Biology and Evolution</i> , 2011 , 28, 2077-86	8.3	181
59	The mycorrhizal status, root anatomy, and phenology of plants in a sugar maple forest. <i>Canadian Journal of Botany</i> , 1988 , 66, 1153-1173		173
58	Constraints to symbiotic germination of terrestrial orchid seed in a mediterranean bushland. <i>New Phytologist</i> , 2001 , 152, 511-520	9.8	149
57	Diversity of mycorrhizal fungi of terrestrial orchids: compatibility webs, brief encounters, lasting relationships and alien invasions. <i>Mycological Research</i> , 2007 , 111, 51-61		132
56	The roots and mycorrhizas of herbaceous woodland plants: II. Structural aspects of morphology. <i>New Phytologist</i> , 1990 , 114, 469-479	9.8	126
55	Comparative anatomy of roots and mycorrhizae of common Ontario trees. <i>Canadian Journal of Botany</i> , 1990 , 68, 551-578		117
54	A developmental study of the early stages in vesicular- \bar{r} buscular mycorrhiza formation. <i>Canadian Journal of Botany</i> , 1985 , 63, 184-194		113
53	The roots and mycorrhizas of herbaceous woodland plants: I. Quantitative aspects of morphology. <i>New Phytologist</i> , 1990 , 114, 457-468	9.8	107

52	Roots of Jarrah Forest Plants .I. Mycorrhizal Associations of Shrubs and Herbaceous Plants. <i>Australian Journal of Botany</i> , 1991 , 39, 445	1.2	106
51	Effects of ectomycorrhizas and vesicular-arbuscular mycorrhizas, alone or in competition, on root colonization and growth of <i>Eucalyptus globulus</i> and <i>E. urophylla</i> . <i>New Phytologist</i> , 2000 , 146, 545-555	9.8	105
50	Glomalean mycorrhizal fungi from tropical Australia. <i>Mycorrhiza</i> , 1999 , 8, 305-314	3.9	88
49	Development of in situ and ex situ seed baiting techniques to detect mycorrhizal fungi from terrestrial orchid habitats. <i>Mycological Research</i> , 2003 , 107, 1210-20		82
48	Global mycorrhizal plant distribution linked to terrestrial carbon stocks. <i>Nature Communications</i> , 2019 , 10, 5077	17.4	79
47	Mycorrhizal fungus propagules in the jarrah forest. <i>New Phytologist</i> , 1994 , 127, 539-546	9.8	79
46	Understanding the Roles of Multifunctional Mycorrhizal and Endophytic Fungi 2006 , 281-298		76
45	Long-term storage of mycorrhizal fungi and seed as a tool for the conservation of endangered Western Australian terrestrial orchids. <i>Australian Journal of Botany</i> , 2001 , 49, 619	1.2	66
44	FungalRoot: global online database of plant mycorrhizal associations. <i>New Phytologist</i> , 2020 , 227, 955-968	9.6	64
43	Mycorrhizal fungus propagules in the jarrah forest: II. Spatial variability in inoculum levels. <i>New Phytologist</i> , 1995 , 131, 461-469	9.8	63
42	Plant mineral nutrition in ancient landscapes: high plant species diversity on infertile soils is linked to functional diversity for nutritional strategies. <i>Plant and Soil</i> , 2011 , 348, 7-27	4.2	58
41	An overview of methods for the detection and observation of arbuscular mycorrhizal fungi in roots <i>Physiologia Plantarum</i> , 2005 , 125, 051021083431001-???	4.6	58
40	Scientific approaches to Australian temperate terrestrial orchid conservation. <i>Australian Journal of Botany</i> , 2007 , 55, 293	1.2	54
39	Mycorrhizas in the Kakadu region of tropical Australia. <i>Plant and Soil</i> , 1996 , 184, 159-171	4.2	51
38	Identity and specificity of the fungi forming mycorrhizas with the rare mycoheterotrophic orchid <i>Rhizanthella gardneri</i> . <i>Mycological Research</i> , 2009 , 113, 1097-106		47
37	In situ symbiotic seed germination and propagation of terrestrial orchid seedlings for establishment at field sites. <i>Australian Journal of Botany</i> , 2006 , 54, 375	1.2	47
36	Fruiting of putative ectomycorrhizal fungi under blue gum (<i>Eucalyptus globulus</i>) plantations of different ages in Western Australia. <i>Mycorrhiza</i> , 1999 , 8, 255-261	3.9	46
35	Effects of habitat fragmentation on plant reproductive success and population viability at the landscape and habitat scale. <i>Biological Conservation</i> , 2013 , 159, 16-23	6.2	43

34	Evolution of Ectomycorrhizal Symbiosis in Plants. <i>Ecological Studies</i> , 2017 , 407-467	1.1	43
33	Misdiagnosis of mycorrhizas and inappropriate recycling of data can lead to false conclusions. <i>New Phytologist</i> , 2019 , 221, 18-24	9.8	42
32	Glomeromycotan mycorrhizal fungi from tropical Australia III. Measuring diversity in natural and disturbed habitats. <i>Plant and Soil</i> , 2013 , 370, 419-433	4.2	37
31	Global Diversity and Importance of Mycorrhizal and Nonmycorrhizal Plants. <i>Ecological Studies</i> , 2017 , 533-556	3.5	37
30	Non-destructive assessment of spore germination of VAM fungi and production of pot cultures from single spores. <i>Soil Biology and Biochemistry</i> , 1995 , 27, 85-91	7.5	35
29	Carbon and nitrogen supply to the underground orchid, <i>Rhizanthella gardneri</i> . <i>New Phytologist</i> , 2010 , 186, 947-956	9.8	33
28	New methods to improve symbiotic propagation of temperate terrestrial orchid seedlings from axenic culture to soil. <i>Australian Journal of Botany</i> , 2006 , 54, 367	1.2	33
27	Survival of transplanted terrestrial orchid seedlings in urban bushland habitats with high or low weed cover. <i>Australian Journal of Botany</i> , 2006 , 54, 383	1.2	30
26	High-resolution secondary ion mass spectrometry analysis of carbon dynamics in mycorrhizas formed by an obligately myco-heterotrophic orchid. <i>Plant, Cell and Environment</i> , 2014 , 37, 1223-30	8.4	29
25	Limited carbon and mineral nutrient gain from mycorrhizal fungi by adult Australian orchids. <i>American Journal of Botany</i> , 2012 , 99, 1133-45	2.7	29
24	Glomalean mycorrhizal fungi from tropical Australia. <i>Mycorrhiza</i> , 1999 , 8, 315-321	3.9	28
23	Nursery inoculation of Eucalyptus seedlings in Western Australia and Southern China using spores and mycelial inoculum of diverse ectomycorrhizal fungi from different climatic regions. <i>Forest Ecology and Management</i> , 2005 , 209, 193-205	3.9	26
22	Impact of severe forest dieback caused by <i>Phytophthora cinnamomi</i> on macrofungal diversity in the northern jarrah forest of Western Australia. <i>Forest Ecology and Management</i> , 2010 , 259, 1033-1040	3.9	20
21	Resolving the mycorrhizal status of important northern hemisphere trees. <i>Plant and Soil</i> , 2020 , 454, 3-34	4.2	14
20	Habitat characteristics of the rare underground orchid <i>Rhizanthella gardneri</i> . <i>Australian Journal of Botany</i> , 2008 , 56, 501	1.2	10
19	A Comprehensive Study of Orchid Seed Production Relative to Pollination Traits, Plant Density and Climate in an Urban Reserve in Western Australia. <i>Diversity</i> , 2019 , 11, 123	2.5	9
18	Distribution and Evolution of Mycorrhizal Types and Other Specialised Roots in Australia. <i>Ecological Studies</i> , 2017 , 361-394	1.1	8
17	Looking for Arbuscular Mycorrhizal Fungi in the Fossil Record: An Illustrated Guide 2018 , 481-517		7

16	FungalRoot: Global online database of plant mycorrhizal associations		7
15	Misallocation of mycorrhizal traits leads to misleading results. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12139-12140	11.5	6
14	A monitoring toolkit for banksia woodlands: comparison of different scale methods to measure recovery of vegetation after fire. <i>Remote Sensing in Ecology and Conservation</i> , 2019 , 5, 33-54	5.3	6
13	Commentary on the de Vega et al. (2010) paper on hyphae in the parasitic plant <i>Cytinus</i> : Mycorrhizal fungi growing within plants are not always mycorrhizal. <i>American Journal of Botany</i> , 2011 , 98, 595-6	2.7	6
12	Using vital statistics and core-habitat maps to manage critically endangered orchids in the Western Australian wheatbelt. <i>Australian Journal of Botany</i> , 2016 , 64, 51	1.2	6
11	Colonisation of jarrah forest bauxite-mine rehabilitation areas by orchid mycorrhizal fungi. <i>Australian Journal of Botany</i> , 2007 , 55, 653	1.2	5
10	Orchid Conservation and Mycorrhizal Associations 2002 , 195-226		5
9	WhyMycophorosis not an orchid seedling, and whySynaptomitusis not a fungal symbiont within this fossil. <i>Botany</i> , 2017 , 95, 865-868	1.3	3
8	Best served deep: The seedbank from salvaged topsoil underscores the role of the dispersal filter in restoration practice. <i>Applied Vegetation Science</i> , 2021 , 24,	3.3	3
7	Fossils of Arbuscular Mycorrhizal Fungi Give Insights Into the History of a Successful Partnership With Plants 2018 , 461-480		2
6	Monitoring vegetation recovery in the early stages of the Dirk Hartog Island Restoration Programme using high temporal frequency Landsat imagery. <i>Ecological Management and Restoration</i> , 2019 , 20, 250-261	1.4	2
5	Arbuscular Mycorrhizas in Plant Communities 2002 , 151-193		2
4	Several complementary methods of plant establishment are required for effective restoration of banksia woodland		1
3	Global mycorrhizal plant distribution linked to terrestrial carbon stocks		1
2	Auditing data resolves systemic errors in databases and confirms mycorrhizal trait consistency for most genera and families of flowering plants. <i>Mycorrhiza</i> , 2021 , 31, 671-683	3.9	0
1	Ectomycorrhizas in Plant Communities 2002 , 105-150		