Jeffrey G Duckett

List of Publications by Year
in descending order

74 papers	3,739 citations	117625 34 h-index	138484 58 g-index
78 all docs	78 docs citations	78 times ranked	2428 citing authors

#	Article	IF	Citations
1	Piecing together the eophytes â€“ a new group of ancient plants containing cryptospores. New Phytologist, 2022, 233, 1440-1455.	7.3	35
2	Earliest record of transfer cells in Lower Devonian plants. New Phytologist, 2022, 233, 1456-1465.	7.3	16
3	Picking up the pieces: New charcoalified plant mesofossils (eophytes) from a Lower Devonian LagerstÓ“tte in the Welsh Borderland, UK. Review of Palaeobotany and Palynology, 2022, 297, 104567.	1.5	12
4	Unveiling the nature of a miniature world: a horizon scan of fundamental questions in bryology. Journal of Bryology, 2022, 44, 1-34.	1.2	12
5	Phenology and function in lycopodâ€“Mucoromycotina symbiosis. New Phytologist, 2021, 229, 2389-2394.	7.3	14
6	Cryptogamic ground covers as analogues for early terrestrial biospheres: Initiation and evolution of biologically mediated protoâ€soils. Geobiology, 2021, 19, 292-306.	2.4	17
7	Moss stomata do not respond to light and CO₂ concentration but facilitate carbon uptake by sporophytes: a gas exchange, stomatal aperture, and ¹³Câ€labelling study. New Phytologist, 2021, 230, 1815-1828.	7.3	22
8	Stomata: the holey grail of plant evolution. American Journal of Botany, 2021, 108, 366-371.	1.7	20
9	Carbon for nutrient exchange between Lycopodiella inundata and Mucoromycotina fine root endophytes is unresponsive to high atmospheric CO2. Mycorrhiza, 2021, 31, 431-440.	2.8	7
10	Advances in understanding of mycorrhizal-like associations in bryophytes. Bryophyte Diversity and Evolution, 2021, 43, .	1.1	2
11	Of mosses and vascular plants. Nature Plants, 2020, 6, 184-185.	9.3	7
12	The distribution and evolution of fungal symbioses in ancient lineages of land plants. Mycorrhiza, 2020, 30, 23-49.	2.8	31
13	Do motile spermatozoids limit the effectiveness of sexual reproduction in bryophytes? Not in the liverwort <i>Marchantia polymorpha</i>. Journal of Systematics and Evolution, 2019, 57, 371-381.	3.1	13
14	Evolution and networks in ancient and widespread symbioses between Mucoromycotina and liverworts. Mycorrhiza, 2019, 29, 551-565.	2.8	20
15	Functional complementarity of ancient plantâ€“fungal mutualisms: contrasting nitrogen, phosphorus and carbon exchanges between Mucoromycotina and Glomeromycotina fungal symbionts of liverworts. New Phytologist, 2019, 223, 908-921.	7.3	47
16	Mucoromycotina Fine Root Endophyte Fungi Form Nutritional Mutualisms with Vascular Plants. Plant Physiology, 2019, 181, 565-577.	4.8	51
17	Fissures and pores in the capsule walls and hydrophobic elaters in <i>Haplomitrium</i>: a transmission and cryo-scanning electron microscope study. Journal of Bryology, 2019, 41, 301-313.	1.2	2
18	Hornwort stomata do not respond actively to exogenous and environmental cues. Annals of Botany, 2018, 122, 45-57.	2.9	31

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19	A mycorrhizal revolution. Current Opinion in Plant Biology, 2018, 44, 1-6.	7.1	73
20	The evolution of the stomatal apparatus: intercellular spaces and sporophyte water relations in bryophytesâ€"two ignored dimensions. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20160498.	4.0	46
21	From rhizoids to roots? Experimental evidence of mutualism between liverworts and ascomycete fungi. Annals of Botany, 2018, 121, 221-227.	2.9	33
22	Ancient plants with ancient fungi: liverworts associate with early-diverging arbuscular mycorrhizal fungi. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181600.	2.6	46
23	The Colorful Phenology of Five Common Terricolous Mosses in London, England. Bryophyte Diversity and Evolution, 2017, 39, 44.	1.1	6
24	Liverworts to the rescue: an investigation of their efficacy as mycorrhizal inoculum for vascular plants. Functional Ecology, 2016, 30, 1014-1023.	3.6	18
25	Pteridophyte fungal associations: Current knowledge and future perspectives. Journal of Systematics and Evolution, 2016, 54, 666-678.	3.1	27
26	Functional analysis of liverworts in dual symbiosis with Glomeromycota and Mucoromycotina fungi under a simulated Palaeozoic CO2 decline. ISME Journal, 2016, 10, 1514-1526.	9.8	92
27	Permanent spore dyads are not â€˜a thing of the pastâ€™: on their occurrence in the liverwort<i>H</i><i>aplomitrium</i>(Haplomitriopsida). Botanical Journal of the Linnean Society, 2015, 179, 658-669.	1.6	23
28	Fungal associations of basal vascular plants: reopening a closed book?. New Phytologist, 2015, 205, 1394-1398.	7.3	79
29	Symbiotic options for the conquest of land. Trends in Ecology and Evolution, 2015, 30, 477-486.	8.7	172
30	Stomatal density and aperture in non-vascular land plants are non-responsive to above-ambient atmospheric CO2concentrations. Annals of Botany, 2015, 115, 915-922.	2.9	40
31	First evidence of mutualism between ancient plant lineages (<scp>H</scp>aplomitriopsida liverworts) and <scp>M</scp>ucoromycotina fungi and its response to simulated <scp>P</scp>alaeozoic changes in atmospheric <scp>CO</scp>₂. New Phytologist, 2015, 205, 743-756.	7.3	163
32	Stomatal differentiation and abnormal stomata in hornworts. Journal of Bryology, 2014, 36, 87-103.	1.2	42
33	Pegged and smooth rhizoids in complex thalloid liverworts (Marchantiopsida): structure, function and evolution. Botanical Journal of the Linnean Society, 2014, 174, 68-92.	1.6	26
34	Fungal associations in <i><scp>H</scp>orneophyton ligneri</i> from the <scp>R</scp>hynie <scp>C</scp>hert (<i>c</i>. 407 million year old) closely resemble those in extant lower land plants: novel insights into ancestral plantâ€"fungus symbioses. New Phytologist, 2014, 203, 964-979.	7.3	175
35	Fungal symbioses in hornworts: a chequered history. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130207.	2.6	87
36	The origin of the sporophyte shoot in land plants: a bryological perspective. Annals of Botany, 2012, 110, 935-941.	2.9	47

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37	Major transitions in the evolution of early land plants: a bryological perspective. Annals of Botany, 2012, 109, 851-871.	2.9	213
38	An ultrastructural study of the liverwort Mizutania riccardioides Furuki et Iwatsuki: new insights into its systematic affinities and unique surface ornamentation. Bryologist, 2011, 114, 38-51.	0.6	12
39	The dawn of symbiosis between plants and fungi. Biology Letters, 2011, 7, 574-577.	2.3	217
40	Morphology versus molecules in moss phylogeny: new insights (or controversies) from placental and vascular anatomy in Oedipodium griffithianum. Plant Systematics and Evolution, 2011, 296, 275-282.	0.9	18
41	Cytological insights into the desiccation biology of a model system: moss protonemata. New Phytologist, 2010, 185, 944-963.	7.3	70
42	Conservative ecological and evolutionary patterns in liverwortâ€“fungal symbioses. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 485-492.	2.6	67
43	A cryo-scanning electron microscope study of the water relations of the remarkable cell wall in the moss Rhacocarpus purpurascens (Rhacocarpaceae, Bryophyta). Nova Hedwigia, 2010, 91, 289-299.	0.4	12
44	Exploding a myth: the capsule dehiscence mechanism and the function of pseudostomata in <i>Sphagnum</i>. New Phytologist, 2009, 183, 1053-1063.	7.3	95
45	Basidiomycetous endophytes in New Zealand Aneuraceae (simple thalloid liverworts, Metzgeriidae) and the derived status of the monotypic genus<i>Verdoornia</i>. Botany, 2008, 86, 346-358.	1.0	13
46	A novel ascomycetous endophytic association in the rhizoids of the leafy liverwort family, Schistochilaceae (Jungermanniidae, Hepaticopsida). American Journal of Botany, 2008, 95, 531-541.	1.7	35
47	Chapter Six: The Ascomycete Rhizoscyphus ericae Elicits a Range of Host Responses in the Rhizoids of Leafy Liverworts: An Experimental and Cytological Analysis. Fieldiana Botany, 2008, 47, 59.	0.3	12
48	Glomeromycotean associations in liverworts: a molecular, cellular, and taxonomic analysis. American Journal of Botany, 2007, 94, 1756-1777.	1.7	141
49	Desiccation Tolerance in the Moss Polytrichum formosum: Physiological and Fine-structural Changes during Desiccation and Recovery. Annals of Botany, 2007, 99, 75-93.	2.9	145
50	Bryophyte phylogeny: Advancing the molecular and morphological frontiers. Bryologist, 2007, 110, 179-213.	0.6	127
51	Effects of De- and Rehydration on Food-conducting Cells in the Moss Polytrichum formosum: A Cytological Study. Annals of Botany, 2006, 98, 67-76.	2.9	81
52	A highly differentiated glomeromycotean association with the mucilageâ€secreting, primitive antipodean liverwort <i>Treubia</i> (Treubiaceae): clues to the origins of mycorrhizas. American Journal of Botany, 2006, 93, 797-813.	1.7	71
53	Distribution of cellâ€wall xylans in bryophytes and tracheophytes: new insights into basal interrelationships of land plants. New Phytologist, 2005, 168, 231-240.	7.3	84
54	A comparative cytological analysis of fungal endophytes in the sporophyte rhizomes and vascularized gametophytes of Tmesipteris and Psilotum. Canadian Journal of Botany, 2005, 83, 1443-1456.	1.1	39

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55	Subterranean gametophytic axes in the primitive liverwort Haplomitrium harbour a unique type of endophytic association with aseptate fungi. New Phytologist, 2003, 160, 185-197.	7.3	58
56	The Structure and Development of Haustorial Placentas in Leptosporangiate Ferns Provide a Clear-cut Distinction Between Euphyllophytes and Lycophytes. Annals of Botany, 2003, 92, 513-521.	2.9	20
57	Diversity in the distribution of polysaccharide and glycoprotein epitopes in the cell walls of bryophytes: new evidence for the multiple evolution of waterâ€conducting cells. New Phytologist, 2002, 156, 491-508.	7.3	91
58	Evolution of the Major Moss Lineages: Phylogenetic Analyses Based on Multiple Gene Sequences and Morphology. Bryologist, 2000, 103, 187-211.	0.6	119
59	Polarity and endoplasmic microtubules in foodâ€conducting cells of mosses: an experimental study. New Phytologist, 1996, 134, 503-516.	7.3	20
60	Development of waterâ€conducting cells in the antipodal liverwort Symphyogyna brasiliensis (Metzgeriales). New Phytologist, 1996, 132, 603-615.	7.3	17
61	Ericoid mycorrhizas and rhizoidâ€ascomycete associations in liverworts share the same mycobiont: isolation of the partners and resynthesis of the associations in vitro. New Phytologist, 1995, 129, 439-447.	7.3	65
62	Cytoplasmic polarity and endoplasmic microtubules associated with the nucleus and organelles are ubiquitous features of foodâ€conducting cells in bryoid mosses (Bryophyta). New Phytologist, 1994, 127, 601-614.	7.3	48
63	A comparative ultrastructural study of endophytic basidiomycetes in the parasitic achlorophyllous hepatic <i>Cryptothallus mirabilis</i> and the closely allied photosynthetic species <i>Aneura pinguis</i> (Metzgeriales). Canadian Journal of Botany, 1993, 71, 666-679.	1.1	36
64	The Gametophyte-Sporophyte Junction in Land Plants. Advances in Botanical Research, 1993, , 231-318.	1.1	73
65	A light and electron microscope study of the fungal endophytes in the sporophyte and gametophyte of <i>Lycopodium cernuum</i> with observations on the gametophyteâ€"sporophyte junction. Canadian Journal of Botany, 1992, 70, 58-72.	1.1	62
66	Desiccation causes the proliferation of multicellular hairs, but not mucilage papillae, in Cryptothallus mirabilis (Hepatophyta): a correlated light and electron microscope study. Canadian Journal of Botany, 1990, 68, 697-706.	1.1	13
67	The origins of heterospory: a comparative study of sexual behaviour in the fern Platyzoma microphyllum R.Br. and the horsetail Equisetum giganteum L.. Botanical Journal of the Linnean Society, 1984, 88, 11-34.	1.6	23
68	Ultrastructural studies of spermatogenesis in the anthocerotales. III. Gamete morphogenesis: From spermatogenous cell through midstage spermatid. Gamete Research, 1980, 3, 149-167.	1.7	16
69	ULTRASTRUCTURAL STUDIES OF SPERMATOGENESIS IN THE ANTHOCEROTALES. I. THE BLEPHAROPLAST AND ANTERIOR MITOCHONDRION IN PHAEOCEROS LAEVIS: EARLY DEVELOPMENT. American Journal of Botany, 1977, 64, 1097-1106.	1.7	22
70	ULTRASTRUCTURAL STUDIES OF SPERMATOGENESIS IN THE ANTHOCEROTALES. II. THE BLEPHAROPLAST AND ANTERIOR MITOCHONDRION IN PHAEOCEROS LAEVIS: LATER DEVELOPMENT. American Journal of Botany, 1977, 64, 1107-1116.	1.7	16
71	Ultrastructural Studies of Spermatogenesis in the Anthocerotales. I. The Blepharoplast and Anterior Mitochondrion in Phaeoceros laevis: Early Development. American Journal of Botany, 1977, 64, 1097.	1.7	6
72	Ultrastructural Studies of Spermatogenesis in the Anthocerotales. II. The Blepharoplast and Anterior Mitochondrion in Phaeoceros laevis: Later Development. American Journal of Botany, 1977, 64, 1107.	1.7	6

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73	An ultrastructural study of spermatogenesis in<i>Anthoceros laevis</i>L. with particular reference to the multilayered structure. Bulletin De La SociÃ©tÃ© Botanique De France, 1974, 121, 81-91.	0.1	3
74	Wall ingrowths in the jacket cells of the antheridia of<i>Anthoceros laevis</i>L.. Journal of Bryology, 1973, 7, 405-412.	1.2	8