

# Jeffrey G Duckett

## List of Publications by Year in descending order

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74  
papers

3,739  
citations

117625

34  
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138484

58  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2428  
citing authors

#	ARTICLE	IF	CITATIONS
1	The dawn of symbiosis between plants and fungi. <i>Biology Letters</i> , 2011, 7, 574-577.	2.3	217
2	Major transitions in the evolution of early land plants: a bryological perspective. <i>Annals of Botany</i> , 2012, 109, 851-871.	2.9	213
3	Fungal associations in <i>Horneophyton ligneri</i> from the Rhynie chert (407 million year old) closely resemble those in extant lower land plants: novel insights into ancestral plant-fungus symbioses. <i>New Phytologist</i> , 2014, 203, 964-979.	7.3	175
4	Symbiotic options for the conquest of land. <i>Trends in Ecology and Evolution</i> , 2015, 30, 477-486.	8.7	172
5	First evidence of mutualism between ancient plant lineages (Haplomitriopsida liverworts) and Mucoromycotina fungi and its response to simulated Palaeozoic changes in atmospheric CO <sub>2</sub> . <i>New Phytologist</i> , 2015, 205, 743-756.	7.3	163
6	Desiccation Tolerance in the Moss <i>Polytrichum formosum</i> : Physiological and Fine-structural Changes during Desiccation and Recovery. <i>Annals of Botany</i> , 2007, 99, 75-93.	2.9	145
7	Glomeromycotean associations in liverworts: a molecular, cellular, and taxonomic analysis. <i>American Journal of Botany</i> , 2007, 94, 1756-1777.	1.7	141
8	Bryophyte phylogeny: Advancing the molecular and morphological frontiers. <i>Bryologist</i> , 2007, 110, 179-213.	0.6	127
9	Evolution of the Major Moss Lineages: Phylogenetic Analyses Based on Multiple Gene Sequences and Morphology. <i>Bryologist</i> , 2000, 103, 187-211.	0.6	119
10	Exploding a myth: the capsule dehiscence mechanism and the function of pseudostomata in <i>Sphagnum</i> . <i>New Phytologist</i> , 2009, 183, 1053-1063.	7.3	95
11	Functional analysis of liverworts in dual symbiosis with Glomeromycota and Mucoromycotina fungi under a simulated Palaeozoic CO <sub>2</sub> decline. <i>ISME Journal</i> , 2016, 10, 1514-1526.	9.8	92
12	Diversity in the distribution of polysaccharide and glycoprotein epitopes in the cell walls of bryophytes: new evidence for the multiple evolution of water-conducting cells. <i>New Phytologist</i> , 2002, 156, 491-508.	7.3	91
13	Fungal symbioses in hornworts: a chequered history. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130207.	2.6	87
14	Distribution of cell-wall xylans in bryophytes and tracheophytes: new insights into basal interrelationships of land plants. <i>New Phytologist</i> , 2005, 168, 231-240.	7.3	84
15	Effects of De- and Rehydration on Food-conducting Cells in the Moss <i>Polytrichum formosum</i> : A Cytological Study. <i>Annals of Botany</i> , 2006, 98, 67-76.	2.9	81
16	Fungal associations of basal vascular plants: reopening a closed book?. <i>New Phytologist</i> , 2015, 205, 1394-1398.	7.3	79
17	The Gametophyte-Sporophyte Junction in Land Plants. <i>Advances in Botanical Research</i> , 1993, , 231-318.	1.1	73
18	A mycorrhizal revolution. <i>Current Opinion in Plant Biology</i> , 2018, 44, 1-6.	7.1	73

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19	A highly differentiated glomeromycotean association with the mucilage-secreting, primitive antipodean liverwort <i>Treubia</i> (Treubiaceae): clues to the origins of mycorrhizas. <i>American Journal of Botany</i> , 2006, 93, 797-813.	1.7	71
20	Cytological insights into the desiccation biology of a model system: moss protonemata. <i>New Phytologist</i> , 2010, 185, 944-963.	7.3	70
21	Conservative ecological and evolutionary patterns in liverwort-fungal symbioses. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 485-492.	2.6	67
22	Ericoid mycorrhizas and rhizoid-ascomycete associations in liverworts share the same mycobiont: isolation of the partners and resynthesis of the associations in vitro. <i>New Phytologist</i> , 1995, 129, 439-447.	7.3	65
23	A light and electron microscope study of the fungal endophytes in the sporophyte and gametophyte of <i>Lycopodium cernuum</i> with observations on the gametophyte-sporophyte junction. <i>Canadian Journal of Botany</i> , 1992, 70, 58-72.	1.1	62
24	Subterranean gametophytic axes in the primitive liverwort <i>Haplomitrium</i> harbour a unique type of endophytic association with aseptate fungi. <i>New Phytologist</i> , 2003, 160, 185-197.	7.3	58
25	Mucoromycotina Fine Root Endophyte Fungi Form Nutritional Mutualisms with Vascular Plants. <i>Plant Physiology</i> , 2019, 181, 565-577.	4.8	51
26	Cytoplasmic polarity and endoplasmic microtubules associated with the nucleus and organelles are ubiquitous features of food-conducting cells in bryoid mosses (Bryophyta). <i>New Phytologist</i> , 1994, 127, 601-614.	7.3	48
27	The origin of the sporophyte shoot in land plants: a bryological perspective. <i>Annals of Botany</i> , 2012, 110, 935-941.	2.9	47
28	Functional complementarity of ancient plant-fungal mutualisms: contrasting nitrogen, phosphorus and carbon exchanges between Mucoromycotina and Glomeromycotina fungal symbionts of liverworts. <i>New Phytologist</i> , 2019, 223, 908-921.	7.3	47
29	The evolution of the stomatal apparatus: intercellular spaces and sporophyte water relations in bryophytes—two ignored dimensions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20160498.	4.0	46
30	Ancient plants with ancient fungi: liverworts associate with early-diverging arbuscular mycorrhizal fungi. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181600.	2.6	46
31	Stomatal differentiation and abnormal stomata in hornworts. <i>Journal of Bryology</i> , 2014, 36, 87-103.	1.2	42
32	Stomatal density and aperture in non-vascular land plants are non-responsive to above-ambient atmospheric CO <sub>2</sub> concentrations. <i>Annals of Botany</i> , 2015, 115, 915-922.	2.9	40
33	A comparative cytological analysis of fungal endophytes in the sporophyte rhizomes and vascularized gametophytes of <i>Tmesipteris</i> and <i>Psilotum</i> . <i>Canadian Journal of Botany</i> , 2005, 83, 1443-1456.	1.1	39
34	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). <i>Canadian Journal of Botany</i> , 1993, 71, 666-679.	1.1	36
35	A novel ascomycetous endophytic association in the rhizoids of the leafy liverwort family, Schistochilaceae (Jungermanniidae, Hepaticopsida). <i>American Journal of Botany</i> , 2008, 95, 531-541.	1.7	35
36	Piecing together the eophytes—a new group of ancient plants containing cryptospores. <i>New Phytologist</i> , 2022, 233, 1440-1455.	7.3	35

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37	From rhizoids to roots? Experimental evidence of mutualism between liverworts and ascomycete fungi. <i>Annals of Botany</i> , 2018, 121, 221-227.	2.9	33
38	Hornwort stomata do not respond actively to exogenous and environmental cues. <i>Annals of Botany</i> , 2018, 122, 45-57.	2.9	31
39	The distribution and evolution of fungal symbioses in ancient lineages of land plants. <i>Mycorrhiza</i> , 2020, 30, 23-49.	2.8	31
40	Pteridophyte fungal associations: Current knowledge and future perspectives. <i>Journal of Systematics and Evolution</i> , 2016, 54, 666-678.	3.1	27
41	Pegged and smooth rhizoids in complex thalloid liverworts (Marchantiopsida): structure, function and evolution. <i>Botanical Journal of the Linnean Society</i> , 2014, 174, 68-92.	1.6	26
42	The origins of heterospory: a comparative study of sexual behaviour in the fern <i>Platyzoma microphyllum</i> R.Br. and the horsetail <i>Equisetum giganteum</i> L.. <i>Botanical Journal of the Linnean Society</i> , 1984, 88, 11-34.	1.6	23
43	Permanent spore dyads are not "a thing of the past": on their occurrence in the liverwort <i>Haplomitrium</i> (Haplomitriopsida). <i>Botanical Journal of the Linnean Society</i> , 2015, 179, 658-669.	1.6	23
44	ULTRASTRUCTURAL STUDIES OF SPERMATOGENESIS IN THE ANTHOCEROTALES. I. THE BLEPHAROPLAST AND ANTERIOR MITOCHONDRION IN PHAEOCEROS LAEVIS: EARLY DEVELOPMENT. <i>American Journal of Botany</i> , 1977, 64, 1097-1106.	1.7	22
45	Moss stomata do not respond to light and CO <sub>2</sub> concentration but facilitate carbon uptake by sporophytes: a gas exchange, stomatal aperture, and <sup>13</sup> C labelling study. <i>New Phytologist</i> , 2021, 230, 1815-1828.	7.3	22
46	Polarity and endoplasmic microtubules in food-conducting cells of mosses: an experimental study. <i>New Phytologist</i> , 1996, 134, 503-516.	7.3	20
47	The Structure and Development of Haustorial Placentas in Leptosporangiate Ferns Provide a Clear-cut Distinction Between Euphyllophytes and Lycophytes. <i>Annals of Botany</i> , 2003, 92, 513-521.	2.9	20
48	Evolution and networks in ancient and widespread symbioses between Mucoromycotina and liverworts. <i>Mycorrhiza</i> , 2019, 29, 551-565.	2.8	20
49	Stomata: the holy grail of plant evolution. <i>American Journal of Botany</i> , 2021, 108, 366-371.	1.7	20
50	Morphology versus molecules in moss phylogeny: new insights (or controversies) from placental and vascular anatomy in <i>Oedipodium griffithianum</i> . <i>Plant Systematics and Evolution</i> , 2011, 296, 275-282.	0.9	18
51	Liverworts to the rescue: an investigation of their efficacy as mycorrhizal inoculum for vascular plants. <i>Functional Ecology</i> , 2016, 30, 1014-1023.	3.6	18
52	Development of water-conducting cells in the antipodal liverwort <i>Symphyogyna brasiliensis</i> (Metzgeriales). <i>New Phytologist</i> , 1996, 132, 603-615.	7.3	17
53	Cryptogamic ground covers as analogues for early terrestrial biospheres: Initiation and evolution of biologically mediated proto-soils. <i>Geobiology</i> , 2021, 19, 292-306.	2.4	17
54	ULTRASTRUCTURAL STUDIES OF SPERMATOGENESIS IN THE ANTHOCEROTALES. II. THE BLEPHAROPLAST AND ANTERIOR MITOCHONDRION IN PHAEOCEROS LAEVIS: LATER DEVELOPMENT. <i>American Journal of Botany</i> , 1977, 64, 1107-1116.	1.7	16

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55	Ultrastructural studies of spermatogenesis in the anthocerotales. III. Gamete morphogenesis: From spermatogenous cell through midstage spermatid. <i>Gamete Research</i> , 1980, 3, 149-167.	1.7	16
56	Earliest record of transfer cells in Lower Devonian plants. <i>New Phytologist</i> , 2022, 233, 1456-1465.	7.3	16
57	Phenology and function in lycopod-Mucoromycotina symbiosis. <i>New Phytologist</i> , 2021, 229, 2389-2394.	7.3	14
58	Desiccation causes the proliferation of multicellular hairs, but not mucilage papillae, in <i>Cryptothallus mirabilis</i> (Hepatophyta): a correlated light and electron microscope study. <i>Canadian Journal of Botany</i> , 1990, 68, 697-706.	1.1	13
59	Basidiomycetous endophytes in New Zealand Aneuraceae (simple thalloid liverworts, Metzgeriidae) and the derived status of the monotypic genus <i>Verdoornia</i> . <i>Botany</i> , 2008, 86, 346-358.	1.0	13
60	Do motile spermatozooids limit the effectiveness of sexual reproduction in bryophytes? Not in the liverwort <i>Marchantia polymorpha</i> . <i>Journal of Systematics and Evolution</i> , 2019, 57, 371-381.	3.1	13
61	Chapter Six: The Ascomycete <i>Rhizoscyphus ericae</i> Elicits a Range of Host Responses in the Rhizoids of Leafy Liverworts: An Experimental and Cytological Analysis. <i>Fieldiana Botany</i> , 2008, 47, 59.	0.3	12
62	A cryo-scanning electron microscope study of the water relations of the remarkable cell wall in the moss <i>Rhacocarpus purpurascens</i> (Rhacocarpaceae, Bryophyta). <i>Nova Hedwigia</i> , 2010, 91, 289-299.	0.4	12
63	An ultrastructural study of the liverwort <i>Mizutania riccardioides</i> Furuki et Iwatsuki: new insights into its systematic affinities and unique surface ornamentation. <i>Bryologist</i> , 2011, 114, 38-51.	0.6	12
64	Picking up the pieces: New charcoalfied plant mesofossils (eophytes) from a Lower Devonian Lagerstätte in the Welsh Borderland, UK. <i>Review of Palaeobotany and Palynology</i> , 2022, 297, 104567.	1.5	12
65	Unveiling the nature of a miniature world: a horizon scan of fundamental questions in bryology. <i>Journal of Bryology</i> , 2022, 44, 1-34.	1.2	12
66	Wall ingrowths in the jacket cells of the antheridia of <i>Anthoceros laevis</i> L.. <i>Journal of Bryology</i> , 1973, 7, 405-412.	1.2	8
67	Of mosses and vascular plants. <i>Nature Plants</i> , 2020, 6, 184-185.	9.3	7
68	Carbon for nutrient exchange between <i>Lycopodiella inundata</i> and <i>Mucoromycotina</i> fine root endophytes is unresponsive to high atmospheric CO <sub>2</sub> . <i>Mycorrhiza</i> , 2021, 31, 431-440.	2.8	7
69	The Colorful Phenology of Five Common Terricolous Mosses in London, England. <i>Bryophyte Diversity and Evolution</i> , 2017, 39, 44.	1.1	6
70	Ultrastructural Studies of Spermatogenesis in the Anthocerotales. I. The Blepharoplast and Anterior Mitochondrion in <i>Phaeoceros laevis</i> : Early Development. <i>American Journal of Botany</i> , 1977, 64, 1097.	1.7	6
71	Ultrastructural Studies of Spermatogenesis in the Anthocerotales. II. The Blepharoplast and Anterior Mitochondrion in <i>Phaeoceros laevis</i> : Later Development. <i>American Journal of Botany</i> , 1977, 64, 1107.	1.7	6
72	An ultrastructural study of spermatogenesis in <i>Anthoceros laevis</i> L. with particular reference to the multilayered structure. <i>Bulletin De La Société Botanique De France</i> , 1974, 121, 81-91.	0.1	3

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73	Fissures and pores in the capsule walls and hydrophobic elaters in <i>Haplomitrium</i> : a transmission and cryo-scanning electron microscope study. <i>Journal of Bryology</i> , 2019, 41, 301-313.	1.2	2
74	Advances in understanding of mycorrhizal-like associations in bryophytes. <i>Bryophyte Diversity and Evolution</i> , 2021, 43, .	1.1	2