Matthew E Smith

List of Publications by Year
in descending order

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123	12,563	117625	26613
papers	citations	34	107
		h-index	g-index

124	124	124	11665
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Towards a unified paradigm for sequenceâ€based identification of fungi. Molecular Ecology, 2013, 22, 5271-5277.	3.9	2,997
2	Global diversity and geography of soil fungi. Science, 2014, 346, 1256688.	12.6	2,513
3	A phylum-level phylogenetic classification of zygomycete fungi based on genome-scale data. Mycologia, 2016, 108, 1028-1046.	1.9	1,092
4	Ectomycorrhizal lifestyle in fungi: global diversity, distribution, and evolution of phylogenetic lineages. Mycorrhiza, 2010, 20, 217-263.	2.8	797
5	Endemism and functional convergence across the North American soil mycobiome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6341-6346.	7.1	482
6	Lineages of ectomycorrhizal fungi revisited: Foraging strategies and novel lineages revealed by sequences from belowground. Fungal Biology Reviews, 2013, 27, 83-99.	4.7	431
7	FungalTraits: a user-friendly traits database of fungi and fungus-like stramenopiles. Fungal Diversity, 2020, 105, 1-16.	12.3	387
8	Towards global patterns in the diversity and community structure of ectomycorrhizal fungi. Molecular Ecology, 2012, 21, 4160-4170.	3.9	365
9	Ectomycorrhizal community structure in a xeric Quercus woodland based on rDNA sequence analysis of sporocarps and pooled roots. New Phytologist, 2007, 174, 847-863.	7.3	187
10	Historical Biogeography and Diversification of Truffles in the Tuberaceae and Their Newly Identified Southern Hemisphere Sister Lineage. PLoS ONE, 2013, 8, e52765.	2.5	175
11	Contrasting ectomycorrhizal fungal communities on the roots of coâ€occurring oaks (Quercus) Tj ETQq1 1 0.784314 rgBT /Ov	7.3	158
12	Ectomycorrhizal fungal diversity and community structure on three co-occurring leguminous canopy tree species in a Neotropical rainforest. New Phytologist, 2011, 192, 699-712.	7.3	133
13	Intra-specific and intra-sporocarp ITS variation of ectomycorrhizal fungi as assessed by rDNA sequencing of sporocarps and pooled ectomycorrhizal roots from a Quercus woodland. Mycorrhiza, 2007, 18, 15-22.	2.8	121
14	How to know the fungi: combining field inventories and DNAâ€barcoding to document fungal diversity. New Phytologist, 2017, 214, 913-919.	7.3	118
15	Ectomycorrhizal associations in the tropics â€“ biogeography, diversity patterns and ecosystem roles. New Phytologist, 2018, 220, 1076-1091.	7.3	109
16	Molecular phylogeny, morphology, pigment chemistry and ecology in Hygrophoraceae (Agaricales). Fungal Diversity, 2014, 64, 1-99.	12.3	108
17	Leveraging single-cell genomics to expand the fungal tree of life. Nature Microbiology, 2018, 3, 1417-1428.	13.3	101
18	Ectomycorrhizal fungal sporocarp diversity and discovery of new taxa in Dicymbe monodominant forests of the Guiana Shield. Biodiversity and Conservation, 2012, 21, 2195-2220.	2.6	94

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19	Influence of host species on ectomycorrhizal communities associated with two co-occurring oaks (Quercus spp.) in a tropical cloud forest. FEMS Microbiology Ecology, 2009, 69, 274-287.	2.7	89
20	Are true multihost fungi the exception or the rule? Dominant ectomycorrhizal fungi on Pinus sabiniana differ from those on coâ€occurring Quercus species. New Phytologist, 2009, 182, 295-299.	7.3	86
21	Molecular phylogeny of the Entomophthoromycota. Molecular Phylogenetics and Evolution, 2012, 65, 682-694.	2.7	83
22	How many fungi make sclerotia?. Fungal Ecology, 2015, 13, 211-220.	1.6	81
23	Phylogenomics of Endogonaceae and evolution of mycorrhizas within Mucoromycota. New Phytologist, 2019, 222, 511-525.	7.3	81
24	Structure, Function, and Phylogeny of the Mating Locus in the Rhizopus oryzae Complex. PLoS ONE, 2010, 5, e15273.	2.5	72
25	The Ectomycorrhizal Fungal Community in a Neotropical Forest Dominated by the Endemic Dipterocarp Pakaraimaea dipterocarpacea. PLoS ONE, 2013, 8, e55160.	2.5	71
26	Multiple species of ectomycorrhizal fungi are frequently detected on individual oak root tips in a tropical cloud forest. Mycorrhiza, 2008, 18, 375-383.	2.8	66
27	Ectomycorrhizal fungi and soil enzymes exhibit contrasting patterns along elevation gradients in southern Patagonia. New Phytologist, 2019, 222, 1936-1950.	7.3	61
28	Soil pH and mineral nutrients strongly influence truffles and other ectomycorrhizal fungi associated with commercial pecans (Carya illinoinensis). Plant and Soil, 2017, 418, 493-505.	3.7	48
29	Scaling up: examining the macroecology of ectomycorrhizal fungi. Molecular Ecology, 2012, 21, 4151-4154.	3.9	47
30	Phylogenetic and Phylogenomic Definition of Rhizopus Species. G3: Genes, Genomes, Genetics, 2018, 8, 2007-2018.	1.8	47
31	Multigene phylogeny of Endogonales, an early diverging lineage offungi associated with plants. IMA Fungus, 2017, 8, 245-257.	3.8	45
32	Ectomycorrhizal Fungal Lineages: Detection of Four New Groups and Notes on Consistent Recognition of Ectomycorrhizal Taxa in High-Throughput Sequencing Studies. Ecological Studies, 2017, , 125-142.	1.2	43
33	Revisiting phylogenetic diversity and cryptic species of Cenococcum geophilum sensu lato. Mycorrhiza, 2016, 26, 529-540.	2.8	41
34	New species and distribution records ofClavulina(Cantharellales,Basidiomycota) from the Guiana Shield. Mycologia, 2011, 103, 883-894.	1.9	37
35	New Boletaceae taxa from Guyana: Binderoboletus segoi gen. and sp. nov., Guyanaporus albipodus gen. and sp. nov., Singerocomus rubriflavus gen. and sp. nov., and a new combination for Xerocomus inundabilis. Mycologia, 2016, 108, 157-173.	1.9	36
36	Guyanagaster, a new woodâ€decaying sequestrate fungal genus related to Armillaria (Physalacriaceae, Agaricales, Basidiomycota). American Journal of Botany, 2010, 97, 1474-1484.	1.7	35

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37	Identifying the â€œMushroom of Immortalityâ€• Assessing the Ganoderma Species Composition in Commercial Reishi Products. Frontiers in Microbiology, 2018, 9, 1557.	3.5	35
38	New sequestrate fungi from Guyana: Jimtrappea guyanensis gen. sp. nov., Castellanea pakaraimophila gen. sp. nov., and Costatisporus cyanescens gen. sp. nov. (Boletaceae, Boletales). IMA Fungus, 2015, 6, 297-317.	3.8	32
39	New species of Clavulina (Cantharellales, Basidiomycota) with resupinate and effused basidiomata from the Guiana Shield. Mycologia, 2012, 104, 547-556.	1.9	31
40	Assessing ectomycorrhizal fungal spore banks of truffle producing soils with pecan seedling trap-plants. Plant and Soil, 2012, 356, 357-366.	3.7	31
41	Phylogenetic analysis of the genus Modicella reveals an independent evolutionary origin of sporocarp-forming fungi in the Mortierellales. Fungal Genetics and Biology, 2013, 61, 61-68.	2.1	29
42	Genea, Genabea and Gilkeya gen. nov.: ascomata and ectomycorrhiza formation in a Quercus woodland. Mycologia, 2006, 98, 699-716.	1.9	28
43	A molecular survey of ectomycorrhizal hyphae in a California Quercusâ€“Pinus woodland. Mycorrhiza, 2010, 20, 265-274.	2.8	28
44	Guyanagarika, a new ectomycorrhizal genus of Agaricales from the Neotropics. Fungal Biology, 2016, 120, 1540-1553.	2.5	28
45	New species and distribution records for Clavulina (Cantharellales, Basidiomycota) from the Guiana Shield, with a key to the lowland neotropical taxa. Fungal Biology, 2012, 116, 1263-1274.	2.5	26
46	Genome-scale phylogenetics reveals a monophyletic Zoopagales (Zoopagomycota, Fungi). Molecular Phylogenetics and Evolution, 2019, 133, 152-163.	2.7	26
47	A systematic overview of Descolea (Agaricales) in the Nothofagaceae forests of Patagonia. Fungal Biology, 2017, 121, 876-889.	2.5	25
48	Discovering the role of Patagonian birds in the dispersal of truffles and other mycorrhizal fungi. Current Biology, 2021, 31, 5558-5570.e3.	3.9	25
49	Culturable fungal assemblages growing withinCenococcumsclerotia in forest soils. FEMS Microbiology Ecology, 2014, 90, 708-717.	2.7	24
50	Genea,GenabeaandGilkeyagen. nov.: ascomata and ectomycorrhiza formation in aQuercuswoodland. Mycologia, 2006, 98, 699-716.	1.9	23
51	Challenges and Future Perspectives in the Systematics of Kickxellomycotina, Mortierellomycotina, Mucoromycotina, and Zoopagomycotina. Fungal Biology, 2016, , 65-126.	0.6	23
52	Investigating niche partitioning of ectomycorrhizal fungi in specialized rooting zones of the monodominant leguminous tree Dicymbe corymbosa. New Phytologist, 2017, 215, 443-453.	7.3	23
53	The Gondwanan connection â€“ Southern temperate Amanita lineages and the description of the first sequestrate species from the Americas. Fungal Biology, 2017, 121, 638-651.	2.5	23
54	Tuberculate ectomycorrhizae of angiosperms: The interaction between Boletus rubropunctus (Boletaceae) and Quercus species (Fagaceae) in the United States and Mexico. American Journal of Botany, 2009, 96, 1665-1675.	1.7	21

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55	Multigene Molecular Phylogeny and Biogeographic Diversification of the Earth Tongue Fungi in the Genera Cudonia and Spathularia (Rhytismatales, Ascomycota). PLoS ONE, 2014, 9, e103457.	2.5	21
56	Phylogenetic systematics of Syncephalis (Zoopagales, Zoopagomycotina), a genus of ubiquitous mycoparasites. Mycologia, 2017, 109, 333-349.	1.9	20
57	Caryophyllales are the main hosts of a unique set of ectomycorrhizal fungi in a Neotropical dry forest. Mycorrhiza, 2018, 28, 103-115.	2.8	20
58	Phylogenetic analysis of rDNA sequences indicates that the sequestrate Amogaster viridiglebus is derived from within the agaricoid genus Lepiota (Agaricaceae). Mycological Progress, 2013, 12, 151-155.	1.4	19
59	Stable isotope analyses reveal previously unknown trophic mode diversity in the Hymenochaetales. American Journal of Botany, 2018, 105, 1869-1887.	1.7	19
60	PCR Primers with Enhanced Specificity for Nematode-Trapping Fungi (Orbiliales). Microbial Ecology, 2009, 58, 117-128.	2.8	18
61	New species ofXerocomus(Boletales) from the Guiana Shield, with notes on their mycorrhizal status and fruiting occurrence. Mycologia, 2013, 105, 422-435.	1.9	18
62	Unique phylogenetic position of the African truffle-like fungus, Octaviania ivoryana (Boletaceae, Boletales), and the proposal of a new genus, Afrocastellanoa. Mycologia, 2017, 109, 323-332.	1.9	18
63	Progress and Challenges in Understanding the Biology, Diversity, and Biogeography of Cenococcum geophilum. Ecological Studies, 2017, , 299-317.	1.2	18
64	New Elaphomyces species (Elaphomycetaceae, Eurotiales, Ascomycota) from Guyana. Mycologia, 2012, 104, 1244-1249.	1.9	17
65	Mycorrhizal detection of native and non-native truffles in a historic arboretum and the discovery of a new North American species, Tuber arnoldianum sp. nov.. Mycorrhiza, 2016, 26, 781-792.	2.8	17
66	General Systematic Position of the Truffles: Evolutionary Theories. Soil Biology, 2016, , 3-18.	0.8	16
67	Sequestrate fungi from PatagonianNothofagusforests:Cystangium(Russulaceae, Basidiomycota). Mycologia, 2015, 107, 90-103.	1.9	15
68	Otidea subterranea sp. nov.: Otidea goes below ground. Mycological Research, 2009, 113, 858-866.	2.5	14
69	Tuber brennemanii and Tuber floridanum: Two new Tuber species are among the most commonly detected ectomycorrhizal taxa within commercial pecan (Carya illinoinensis) orchards. Mycologia, 2018, 110, 780-790.	1.9	14
70	Understudied, underrepresented, and unknown: Methodological biases that limit detection of early diverging fungi from environmental samples. Molecular Ecology Resources, 2022, 22, 1065-1085.	4.8	14
71	Restingomyces, a new sequestrate genus from the Brazilian Atlantic rainforest that is phylogenetically related to early-diverging taxa in Trappeaceae (Phallales). Mycologia, 2016, 108, 954-966.	1.9	13
72	Five new species of the obligate mycoparasite Syncephalis (Zoopagales, Zoopagomycotina) from soil. Mycologia, 2016, 108, 1114-1129.	1.9	13

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73	Rossbeevera yunnanensis (Boletaceae, Boletales), a new sequestrate species from southern China. Mycotaxon, 2012, 120, 139-147.	0.3	12
74	Phylogenetic overview of the genusGenea(Pezizales, Ascomycota) with an emphasis on European taxa. Mycologia, 2016, 108, 441-456.	1.9	11
75	Cladophialophora floridana and Cladophialophora tortuosa, new species isolated from sclerotia of Cenococcum geophilum in forest soils of Florida, USA. Mycoscience, 2016, 57, 26-34.	0.8	11
76	Ectomycorrhizal Fungi in South America: Their Diversity in Past, Present and Future Research. Fungal Biology, 2019, , 73-95.	0.6	11
77	Systematic study of truffles in the genus Ruhlandiella, with the description of two new species from Patagonia. Mycologia, 2019, 111, 477-492.	1.9	11
78	Sexual reproduction and saprotrophic dominance by the ambrosial fungus Flavodon subulatus (=) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	11
79	Longistriata flava (Boletaceae, Basidiomycota) â€“ a new monotypic sequestrate genus and species from Brazilian Atlantic Forest. MycoKeys, 2020, 62, 53-73.	1.9	11
80	Endophytism and endolichenism in Pezizomycetes: the exception or the rule?. New Phytologist, 2022, 233, 1974-1983.	7.3	11
81	Gymnomyces xerophilus sp. nov. (sequestrate Russulaceae), an ectomycorrhizal associate of Quercus in California. Mycological Research, 2006, 110, 575-582.	2.5	10
82	Two species of the Asian endemic genus Keteleeria form ectomycorrhizas with diverse fungal symbionts in southwestern China. Mycorrhiza, 2012, 22, 403-408.	2.8	10
83	Ancestral predisposition toward a domesticated lifestyle in the termite-cultivated fungus Termitomyces. Current Biology, 2021, 31, 4413-4421.e5.	3.9	10
84	Membranomyces species are common ectomycorrhizal symbionts in Northern Hemisphere forests. Mycorrhiza, 2012, 22, 577-581.	2.8	9
85	Sarcodonin the Neotropics II: four new species from Colombia and a key to the regional species. Mycologia, 2016, 108, 791-805.	1.9	9
86	Resolving relationships at the animal-fungal divergence: A molecular phylogenetic study of the protist trichomycetes (Ichthyosporea, Eccrinida). Molecular Phylogenetics and Evolution, 2017, 109, 447-464.	2.7	9
87	Phylogenetic and morphological analyses of the mycoparasitic genusÂPiptocephalis. Mycologia, 2019, 111, 54-68.	1.9	9
88	Tuber aztecorum sp. nov., a truffle species from Mexico belonging to the Maculatum clade (Tuberaceae, Pezizales). MycoKeys, 2018, 30, 61-72.	1.9	9
89	The enigmatic truffle Fevansia aurantiaca is an ectomycorrhizal member of the Albatrellus lineage. Mycorrhiza, 2013, 23, 663-668.	2.8	8
90	Exploring the phylogenetic affiliations and the trophic mode of Sedecula pulvinata (Sedeculaceae). Mycologia, 2015, 107, 688-696.	1.9	8

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91	A molecular and morphological re-examination of the generic limits of truffles in the tarzetta-geopyxis lineage â€“ Densocarpa, Hydnocystis, and Paurocotylis. Fungal Biology, 2017, 121, 264-284.	2.5	8
92	Hymenogaster macmurphyi and Splanchnomyces behrii are sequestrate species of Xerocomellus from the western United States. Mycologia, 2018, 110, 605-617.	1.9	8
93	New species of Cortinarius sect. Austroamericani, sect. nov., from South American Nothofagaceae forests. Mycologia, 2018, 110, 1127-1144.	1.9	8
94	Multilocus phylogenies reveal three new truffle-like taxa and the traces of interspecific hybridization in Octaviania (Boletaceae, Boletales). IMA Fungus, 2021, 12, 14.	3.8	8
95	Invasion of an inconspicuous ambrosia beetle and fungus may affect wood decay in Southeastern North America. Biological Invasions, 2021, 23, 1339-1347.	2.4	8
96	A new species of Ruhlandiella (Pezizaceae) from Italy. Mycological Progress, 2012, 11, 509-513.	1.4	7
97	Sarcodonin the Neotropics I: new species from Guyana, Puerto Rico and Belize. Mycologia, 2015, 107, 591-606.	1.9	7
98	Isolation source matters: sclerotia and ectomycorrhizal roots provide different views of genetic diversity in Cenococcum geophilum. Mycologia, 2018, 110, 473-481.	1.9	7
99	Hysterangium bonobo: A newly described truffle species that is eaten by bonobos in the Democratic Republic of Congo. Mycologia, 2020, 112, 1203-1211.	1.9	7
100	A single-cell genomics pipeline for environmental microbial eukaryotes. IScience, 2021, 24, 102290.	4.1	7
101	Tropical truffles: English translation and critical review of F. von HÃ¶hnelâ€™s truffles from Java. Mycological Progress, 2011, 10, 249-260.	1.4	6
102	Systematics and Ecology of Edible Ectomycorrhizal Mushrooms. Soil Biology, 2012, , 17-39.	0.8	6
103	Report of wood decay fungus Inonotus tropicalis (phylum Basidiomycota) from a dog with a granulomatous mediastinal mass. Journal of Veterinary Diagnostic Investigation, 2013, 25, 566-572.	1.1	6
104	A Brief Overview of the Systematics, Taxonomy, and Ecology of the Tuber rufum Clade. Soil Biology, 2016, , 125-136.	0.8	6
105	Four new species of sequestrate Inocybe from Chilean Nothofagaceae forests. Mycologia, 2021, 113, 629-642.	1.9	6
106	Two new species of Hygrophorus from temperate Himalayan Oak forests of Pakistan. MycoKeys, 2019, 56, 33-47.	1.9	6
107	Cortinarius section Thaumasti in South American Nothofagaceae forests. Mycologia, 2020, 112, 329-341.	1.9	5
108	Effects of Field Fumigation and Inoculation With the Pecan Truffle (Tuber lyonii) on the Fungal Community of Pecan (Carya illinoinensis) Seedlings Over 5 Years. Frontiers in Microbiology, 2021, 12, 661515.	3.5	5

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109	Loose Ends in the Cortinarius Phylogeny: Five New Myxotelamonoid Species Indicate a High Diversity of These Ectomycorrhizal Fungi with South American Nothofagaceae. Life, 2021, 11, 420.	2.4	5
110	Thaxterogaster revisited: A phylogenetic and taxonomic overview of sequestrate Cortinarius from Patagonia. Mycologia, 2021, 113, 1-34.	1.9	5
111	Reappraisal of the Genus Exsudoporus (Boletaceae) Worldwide Based on Multi-Gene Phylogeny, Morphology and Biogeography, and Insights on Amoenoboletus. Journal of Fungi (Basel, Switzerland), 2022, 8, 101.	3.5	5
112	Preliminary phylogeny ofCoemansia(Kickxellales), with descriptions of four new species from Taiwan. Mycologia, 2017, 109, 1-17.	1.9	4
113	Hortiboletus kohistanensis (Boletaceae), a new bolete species from temperate and subalpine oak forests of Pakistan. Phytotaxa, 2019, 388, 239.	0.3	4
114	Notes on Syncephalis (Zoopgales, Zoopagomycota) from the Farlow Herbarium, with the description of a new species, Syncephalis aethiopica. Mycologia, 2018, 110, 192-200.	1.9	3
115	The Cedrus-associated truffle Trappeindia himalayensis is a morphologically unique and phylogenetically divergent species of Rhizopogon. Mycologia, 2019, 111, 225-234.	1.9	3
116	Fungal communities associated with roots of two closely related Juglandaceae species with a disjunct distribution in the tropics. Fungal Ecology, 2021, 50, 101023.	1.6	3
117	Polyphyly, asexual reproduction and dual trophic mode in Buchwaldoboletus. Fungal Ecology, 2022, 56, 101141.	1.6	3
118	<I>Artomyces nothofagi</I> sp. nov., a clavarioid fungus from a Chilean <I>Nothofagus</I> forest. Mycotaxon, 2015, 130, 653-660.	0.3	2
119	Phylogenetic studies inGenabea, Myrmecocystis, and related genera. Mycologia, 2018, 110, 401-418.	1.9	1
120	Protocol for single-cell isolation and genome amplification of environmental microbial eukaryotes for genomic analysis. STAR Protocols, 2022, 3, 100968.	1.2	1
121	Tuber eburneum and Tuber mujicii: New pine-associated Tuber species from eastern North America. Mycologia, 2022, 114, 575-586.	1.9	1
122	Molecular and morphological evidence place Pholiota psathyrelloides from Patagonia within the ectomycorrhizal genus Psathyloma (Agaricales). New Zealand Journal of Botany, 2019, 57, 261-270.	1.1	0
123	Taxonomic notes on eight species of obligate mycoparasites in the genus Syncephalis isolated from soil and dung. Mycologia, 2020, 112, 552-569.	1.9	0