Matthew E Smith

List of Publications by Year
in descending order

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123 papers	12,563 citations	134610 34 h-index	30277 107 g-index
124 all docs	124 docs citations	124 times ranked	12849 citing authors

#	Article	IF	Citations
1	Understudied, underrepresented, and unknown: Methodological biases that limit detection of early diverging fungi from environmental samples. Molecular Ecology Resources, 2022, 22, 1065-1085.	2.2	14
2	Endophytism and endolichenism in Pezizomycetes: the exception or the rule?. New Phytologist, 2022, 233, 1974-1983.	3.5	11
3	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.	1.5	5
4	Protocol for single-cell isolation and genome amplification of environmental microbial eukaryotes for genomic analysis. STAR Protocols, 2022, 3, 100968.	0.5	1
5	Polyphyly, asexual reproduction and dual trophic mode in Buchwaldoboletus. Fungal Ecology, 2022, 56, 101141.	0.7	3
6	Tuber eburneum and Tuber mujicii: New pine-associated Tuber species from eastern North America. Mycologia, 2022, 114, 575-586.	0.8	1
7	Fungal communities associated with roots of two closely related Juglandaceae species with a disjunct distribution in the tropics. Fungal Ecology, 2021, 50, 101023.	0.7	3
8	Four new species of sequestrate Inocybe from Chilean Nothofagaceae forests. Mycologia, 2021, 113, 629-642.	0.8	6
9	A single-cell genomics pipeline for environmental microbial eukaryotes. IScience, 2021, 24, 102290.	1.9	7
10	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.	1.5	5
11	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.	1.1	5
12	Multilocus phylogenies reveal three new truffle-like taxa and the traces of interspecific hybridization in Octaviania (Boletaceae, Boletales). IMA Fungus, 2021, 12, 14.	1.7	8
13	Thaxterogaster revisited: A phylogenetic and taxonomic overview of sequestrate Cortinarius from Patagonia. Mycologia, 2021, 113, 1-34.	0.8	5
14	Ancestral predisposition toward a domesticated lifestyle in the termite-cultivated fungus Termitomyces. Current Biology, 2021, 31, 4413-4421.e5.	1.8	10
15	Invasion of an inconspicuous ambrosia beetle and fungus may affect wood decay in Southeastern North America. Biological Invasions, 2021, 23, 1339-1347.	1.2	8
16	Discovering the role of Patagonian birds in the dispersal of truffles and other mycorrhizal fungi. Current Biology, 2021, 31, 5558-5570.e3.	1.8	25
17	Cortinarius section Thaumasti in South American Nothofagaceae forests. Mycologia, 2020, 112, 329-341.	0.8	5
18	Sexual reproduction and saprotrophic dominance by the ambrosial fungus Flavodon subulatus (=) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	11

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19	Hysterangium bonobo: A newly described truffle species that is eaten by bonobos in the Democratic Republic of Congo. Mycologia, 2020, 112, 1203-1211.	0.8	7
20	Taxonomic notes on eight species of obligate mycoparasites in the genus Syncephalis isolated from soil and dung. Mycologia, 2020, 112, 552-569.	0.8	0
21	FungalTraits: a user-friendly traits database of fungi and fungus-like stramenopiles. Fungal Diversity, 2020, 105, 1-16.	4.7	387
22	Longistriata flava (Boletaceae, Basidiomycota) â€“ a new monotypic sequestrate genus and species from Brazilian Atlantic Forest. MycoKeys, 2020, 62, 53-73.	0.8	11
23	Molecular and morphological evidence place Pholiota psathyrelloides from Patagonia within the ectomycorrhizal genus Psathyloma (Agaricales). New Zealand Journal of Botany, 2019, 57, 261-270.	0.8	0
24	Hortiboletus kohistanensis (Boletaceae), a new bolete species from temperate and subalpine oak forests of Pakistan. Phytotaxa, 2019, 388, 239.	0.1	4
25	Ectomycorrhizal fungi and soil enzymes exhibit contrasting patterns along elevation gradients in southern Patagonia. New Phytologist, 2019, 222, 1936-1950.	3.5	61
26	Phylogenetic and morphological analyses of the mycoparasitic genusÂPiptocephalis. Mycologia, 2019, 111, 54-68.	0.8	9
27	Ectomycorrhizal Fungi in South America: Their Diversity in Past, Present and Future Research. Fungal Biology, 2019, , 73-95.	0.3	11
28	Systematic study of truffles in the genus Ruhlandiella, with the description of two new species from Patagonia. Mycologia, 2019, 111, 477-492.	0.8	11
29	The Cedrus-associated truffle Trappeindia himalayensis is a morphologically unique and phylogenetically divergent species of Rhizopogon. Mycologia, 2019, 111, 225-234.	0.8	3
30	Genome-scale phylogenetics reveals a monophyletic Zoopagales (Zoopagomycota, Fungi). Molecular Phylogenetics and Evolution, 2019, 133, 152-163.	1.2	26
31	Phylogenomics of Endogonaceae and evolution of mycorrhizas within Mucoromycota. New Phytologist, 2019, 222, 511-525.	3.5	81
32	Two new species of Hygrophorus from temperate Himalayan Oak forests of Pakistan. MycoKeys, 2019, 56, 33-47.	0.8	6
33	Hymenogaster macmurphyi and Splanchnomyces behrii are sequestrate species of Xerocomellus from the western United States. Mycologia, 2018, 110, 605-617.	0.8	8
34	Phylogenetic and Phylogenomic Definition of Rhizopus Species. G3: Genes, Genomes, Genetics, 2018, 8, 2007-2018.	0.8	47
35	Ectomycorrhizal associations in the tropics â€“ biogeography, diversity patterns and ecosystem roles. New Phytologist, 2018, 220, 1076-1091.	3.5	109
36	Caryophyllales are the main hosts of a unique set of ectomycorrhizal fungi in a Neotropical dry forest. Mycorrhiza, 2018, 28, 103-115.	1.3	20

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37	Phylogenetic studies inGenabea, Myrmecocystis, and related genera. Mycologia, 2018, 110, 401-418.	0.8	1
38	New species of Cortinarius sect. Austroamericani, sect. nov., from South American Nothofagaceae forests. Mycologia, 2018, 110, 1127-1144.	0.8	8
39	Leveraging single-cell genomics to expand the fungal tree of life. Nature Microbiology, 2018, 3, 1417-1428.	5.9	101
40	Stable isotope analyses reveal previously unknown trophic mode diversity in the Hymenochaetales. American Journal of Botany, 2018, 105, 1869-1887.	0.8	19
41	Isolation source matters: sclerotia and ectomycorrhizal roots provide different views of genetic diversity in Cenococcum geophilum. Mycologia, 2018, 110, 473-481.	0.8	7
42	Notes on Syncephalis (Zoopgales, Zoopagomycota) from the Farlow Herbarium, with the description of a new species, Syncephalis aethiopica. Mycologia, 2018, 110, 192-200.	0.8	3
43	Identifying the â€œMushroom of Immortalityâ€• Assessing the Ganoderma Species Composition in Commercial Reishi Products. Frontiers in Microbiology, 2018, 9, 1557.	1.5	35
44	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.	0.8	14
45	Tuber aztecorum sp. nov., a truffle species from Mexico belonging to the Maculatum clade (Tuberaceae, Pezizales). MycoKeys, 2018, 30, 61-72.	0.8	9
46	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.	1.1	8
47	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.	1.2	9
48	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.	0.8	18
49	How to know the fungi: combining field inventories and DNAâ€barcoding to document fungal diversity. New Phytologist, 2017, 214, 913-919.	3.5	118
50	Investigating niche partitioning of ectomycorrhizal fungi in specialized rooting zones of the monodominant leguminous tree Dicymbe corymbosa. New Phytologist, 2017, 215, 443-453.	3.5	23
51	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.	1.1	23
52	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.	1.8	48
53	Phylogenetic systematics of Syncephalis (Zoopagales, Zoopagomycotina), a genus of ubiquitous mycoparasites. Mycologia, 2017, 109, 333-349.	0.8	20
54	Preliminary phylogeny ofCoemansia(Kickxellales), with descriptions of four new species from Taiwan. Mycologia, 2017, 109, 1-17.	0.8	4

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55	A systematic overview of Descolea (Agaricales) in the Nothofagaceae forests of Patagonia. Fungal Biology, 2017, 121, 876-889.	1.1	25
56	Multigene phylogeny of Endogonales, an early diverging lineage offungi associated with plants. IMA Fungus, 2017, 8, 245-257.	1.7	45
57	Progress and Challenges in Understanding the Biology, Diversity, and Biogeography of Cenococcum geophilum. Ecological Studies, 2017, , 299-317.	0.4	18
58	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.	0.4	43
59	Revisiting phylogenetic diversity and cryptic species of Cenococcum geophilum sensu lato. Mycorrhiza, 2016, 26, 529-540.	1.3	41
60	Challenges and Future Perspectives in the Systematics of Kickxellomycotina, Mortierellomycotina, Mucoromycotina, and Zoopagomycotina. Fungal Biology, 2016, , 65-126.	0.3	23
61	Sarcodonin the Neotropics II: four new species from Colombia and a key to the regional species. Mycologia, 2016, 108, 791-805.	0.8	9
62	A phylum-level phylogenetic classification of zygomycete fungi based on genome-scale data. Mycologia, 2016, 108, 1028-1046.	0.8	1,092
63	General Systematic Position of the Truffles: Evolutionary Theories. Soil Biology, 2016, , 3-18.	0.6	16
64	A Brief Overview of the Systematics, Taxonomy, and Ecology of the Tuber rufum Clade. Soil Biology, 2016, , 125-136.	0.6	6
65	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.	0.8	13
66	Guyanagarika, a new ectomycorrhizal genus of Agaricales from the Neotropics. Fungal Biology, 2016, 120, 1540-1553.	1.1	28
67	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.	1.3	17
68	Phylogenetic overview of the genusGenea(Pezizales, Ascomycota) with an emphasis on European taxa. Mycologia, 2016, 108, 441-456.	0.8	11
69	Cladophialophora floridana and Cladophialophora tortuosa, new species isolated from sclerotia of Cenococcum geophilum in forest soils of Florida, USA. Mycoscience, 2016, 57, 26-34.	0.3	11
70	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.	0.8	36
71	Five new species of the obligate mycoparasite Syncephalis (Zoopagales, Zoopagomycotina) from soil. Mycologia, 2016, 108, 1114-1129.	0.8	13
72	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.	1.7	32

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73	<I>Artomyces nothofagi</I> sp. nov., a clavarioid fungus from a Chilean <I>Nothofagus</I> forest. Mycotaxon, 2015, 130, 653-660.	0.1	2
74	Sarcodonin the Neotropics I: new species from Guyana, Puerto Rico and Belize. Mycologia, 2015, 107, 591-606.	0.8	7
75	Exploring the phylogenetic affiliations and the trophic mode of Sedecula pulvinata (Sedeculaceae). Mycologia, 2015, 107, 688-696.	0.8	8
76	How many fungi make sclerotia?. Fungal Ecology, 2015, 13, 211-220.	0.7	81
77	Sequestrate fungi from PatagonianNothofagusforests:Cystangium(Russulaceae, Basidiomycota). Mycologia, 2015, 107, 90-103.	0.8	15
78	Multigene Molecular Phylogeny and Biogeographic Diversification of the Earth Tongue Fungi in the Genera Cudonia and Spathularia (Rhytismatales, Ascomycota). PLoS ONE, 2014, 9, e103457.	1.1	21
79	Global diversity and geography of soil fungi. Science, 2014, 346, 1256688.	6.0	2,513
80	Culturable fungal assemblages growing withinCenococcumsclerotia in forest soils. FEMS Microbiology Ecology, 2014, 90, 708-717.	1.3	24
81	Molecular phylogeny, morphology, pigment chemistry and ecology in Hygrophoraceae (Agaricales). Fungal Diversity, 2014, 64, 1-99.	4.7	108
82	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.	3.3	482
83	Towards a unified paradigm for sequenceâ€based identification of fungi. Molecular Ecology, 2013, 22, 5271-5277.	2.0	2,997
84	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.	0.9	29
85	Lineages of ectomycorrhizal fungi revisited: Foraging strategies and novel lineages revealed by sequences from belowground. Fungal Biology Reviews, 2013, 27, 83-99.	1.9	431
86	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.	0.5	19
87	New species ofXerocomus(Boletales) from the Guiana Shield, with notes on their mycorrhizal status and fruiting occurrence. Mycologia, 2013, 105, 422-435.	0.8	18
88	The enigmatic truffle Fevansia aurantiaca is an ectomycorrhizal member of the Albatrellus lineage. Mycorrhiza, 2013, 23, 663-668.	1.3	8
89	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.	0.5	6
90	Historical Biogeography and Diversification of Truffles in the Tuberaceae and Their Newly Identified Southern Hemisphere Sister Lineage. PLoS ONE, 2013, 8, e52765.	1.1	175

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91	The Ectomycorrhizal Fungal Community in a Neotropical Forest Dominated by the Endemic Dipterocarp Pakaraimaea dipterocarpacea. PLoS ONE, 2013, 8, e55160.	1.1	71
92	Rossbeevera yunnanensis (Boletaceae, Boletales), a new sequestrate species from southern China. Mycotaxon, 2012, 120, 139-147.	0.1	12
93	Scaling up: examining the macroecology of ectomycorrhizal fungi. Molecular Ecology, 2012, 21, 4151-4154.	2.0	47
94	Membranomyces species are common ectomycorrhizal symbionts in Northern Hemisphere forests. Mycorrhiza, 2012, 22, 577-581.	1.3	9
95	Ectomycorrhizal fungal sporocarp diversity and discovery of new taxa in Dicymbe monodominant forests of the Guiana Shield. Biodiversity and Conservation, 2012, 21, 2195-2220.	1.2	94
96	New species of Clavulina (Cantharellales, Basidiomycota) with resupinate and effused basidiomata from the Guiana Shield. Mycologia, 2012, 104, 547-556.	0.8	31
97	Systematics and Ecology of Edible Ectomycorrhizal Mushrooms. Soil Biology, 2012, , 17-39.	0.6	6
98	New Elaphomyces species (Elaphomycetaceae, Eurotiales, Ascomycota) from Guyana. Mycologia, 2012, 104, 1244-1249.	0.8	17
99	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.	1.1	26
100	Molecular phylogeny of the Entomophthoromycota. Molecular Phylogenetics and Evolution, 2012, 65, 682-694.	1.2	83
101	Assessing ectomycorrhizal fungal spore banks of truffle producing soils with pecan seedling trap-plants. Plant and Soil, 2012, 356, 357-366.	1.8	31
102	A new species of Ruhlandiella (Pezizaceae) from Italy. Mycological Progress, 2012, 11, 509-513.	0.5	7
103	Two species of the Asian endemic genus Keteleeria form ectomycorrhizas with diverse fungal symbionts in southwestern China. Mycorrhiza, 2012, 22, 403-408.	1.3	10
104	Towards global patterns in the diversity and community structure of ectomycorrhizal fungi. Molecular Ecology, 2012, 21, 4160-4170.	2.0	365
105	New species and distribution records ofClavulina(Cantharellales,Basidiomycota) from the Guiana Shield. Mycologia, 2011, 103, 883-894.	0.8	37
106	Ectomycorrhizal fungal diversity and community structure on three co-occurring leguminous canopy tree species in a Neotropical rainforest. New Phytologist, 2011, 192, 699-712.	3.5	133
107	Tropical truffles: English translation and critical review of F. von HÃ¶hnelâ€™s truffles from Java. Mycological Progress, 2011, 10, 249-260.	0.5	6
108	Ectomycorrhizal lifestyle in fungi: global diversity, distribution, and evolution of phylogenetic lineages. Mycorrhiza, 2010, 20, 217-263.	1.3	797

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109	A molecular survey of ectomycorrhizal hyphae in a California Quercusâ€“Pinus woodland. Mycorrhiza, 2010, 20, 265-274.	1.3	28
110	Guyanagaster, a new woodâ€decaying sequestrate fungal genus related to Armillaria (Physalacriaceae, Agaricales, Basidiomycota). American Journal of Botany, 2010, 97, 1474-1484.	0.8	35
111	Structure, Function, and Phylogeny of the Mating Locus in the Rhizopus oryzae Complex. PLoS ONE, 2010, 5, e15273.	1.1	72
112	Otidea subterranea sp. nov.: Otidea goes below ground. Mycological Research, 2009, 113, 858-866.	2.5	14
113	PCR Primers with Enhanced Specificity for Nematode-Trapping Fungi (Orbiliales). Microbial Ecology, 2009, 58, 117-128.	1.4	18
114	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.	1.3	89
115	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.	3.5	86
116	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.	0.8	21
117	Multiple species of ectomycorrhizal fungi are frequently detected on individual oak root tips in a tropical cloud forest. Mycorrhiza, 2008, 18, 375-383.	1.3	66
118	Contrasting ectomycorrhizal fungal communities on the roots of coâ€occurring oaks (Quercus) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.5	158
119	Ectomycorrhizal community structure in a xeric Quercus woodland based on rDNA sequence analysis of sporocarps and pooled roots. New Phytologist, 2007, 174, 847-863.	3.5	187
120	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.	1.3	121
121	Genea,GenabeaandGilkeyagen. nov.: ascomata and ectomycorrhiza formation in aQuercuswoodland. Mycologia, 2006, 98, 699-716.	0.8	23
122	Gymnomyces xerophilus sp. nov. (sequestrate Russulaceae), an ectomycorrhizal associate of Quercus in California. Mycological Research, 2006, 110, 575-582.	2.5	10
123	Genea, Genabea and Gilkeya gen. nov.: ascomata and ectomycorrhiza formation in a Quercus woodland. Mycologia, 2006, 98, 699-716.	0.8	28