

Thomas D Brun

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78 papers	7,584 citations	41 h-index	83 g-index
83 ext. papers	9,199 ext. citations	6.3 avg, IF	5.98 L-index

#	Paper	IF	Citations
78	Towards a unified paradigm for sequence-based identification of fungi. <i>Molecular Ecology</i> , 2013 , 22, 5271-7	5.7	2019
77	The molecular revolution in ectomycorrhizal ecology: peeking into the black-box. <i>Molecular Ecology</i> , 2001 , 10, 1855-71	5.7	603
76	Endemism and functional convergence across the North American soil mycobiome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6341-6	11.5	351
75	A strong species-area relationship for eukaryotic soil microbes: island size matters for ectomycorrhizal fungi. <i>Ecology Letters</i> , 2007 , 10, 470-80	10	281
74	Measuring ectomycorrhizal fungal dispersal: macroecological patterns driven by microscopic propagules. <i>Molecular Ecology</i> , 2012 , 21, 4122-36	5.7	256
73	Multiple-host fungi are the most frequent and abundant ectomycorrhizal types in a mixed stand of Douglas fir (<i>Pseudotsuga menziesii</i>) and bishop pine (<i>Pinus muricata</i>). <i>New Phytologist</i> , 1998 , 139, 331-339	9.8	209
72	Detection of plot-level changes in ectomycorrhizal communities across years in an old-growth mixed-conifer forest. <i>New Phytologist</i> , 2005 , 166, 619-29	9.8	191
71	Host specificity in ectomycorrhizal communities: what do the exceptions tell us?. <i>Integrative and Comparative Biology</i> , 2002 , 42, 352-9	2.8	187
70	Ectomycorrhizal, vesicular-arbuscular and dark septate fungal colonization of bishop pine (<i>Pinus muricata</i>) seedlings in the first 5 months of growth after wildfire. <i>Mycorrhiza</i> , 1998 , 8, 11-18	3.9	150
69	Genetic structure of a natural population of the ectomycorrhizal fungus <i>Suillus pungens</i> . <i>New Phytologist</i> , 1998 , 138, 533-542	9.8	143
68	Population, habitat and genetic correlates of mycorrhizal specialization in the 'cheating' orchids <i>corallorhiza maculata</i> and <i>C. mertensiana</i> . <i>Molecular Ecology</i> , 1999 , 8, 1719-32	5.7	139
67	Small genets of <i>Lactarius xanthogalactus</i> , <i>Russula cremoricolor</i> and <i>Amanita francheti</i> in late-stage ectomycorrhizal successions. <i>Molecular Ecology</i> , 2001 , 10, 1025-34	5.7	131
66	Inoculum potential of <i>Rhizopogon</i> spores increases with time over the first 4 yr of a 99-yr spore burial experiment. <i>New Phytologist</i> , 2009 , 181, 463-470	9.8	128
65	Environmental filtering by pH and soil nutrients drives community assembly in fungi at fine spatial scales. <i>Molecular Ecology</i> , 2017 , 26, 6960-6973	5.7	127
64	Rethinking ectomycorrhizal succession: are root density and hyphal exploration types drivers of spatial and temporal zonation?. <i>Fungal Ecology</i> , 2011 , 4, 233-240	4.1	126
63	Spore dispersal of basidiomycete fungi at the landscape scale is driven by stochastic and deterministic processes and generates variability in plant-fungal interactions. <i>New Phytologist</i> , 2014 , 204, 180-191	9.8	123
62	Priority effects determine the outcome of ectomycorrhizal competition between two <i>Rhizopogon</i> species colonizing <i>Pinus muricata</i> seedlings. <i>New Phytologist</i> , 2005 , 166, 631-8	9.8	116

61	Chamber bioaerosol study: outdoor air and human occupants as sources of indoor airborne microbes. <i>PLoS ONE</i> , 2015 , 10, e0128022	3.7	116
60	Airborne bacterial communities in residences: similarities and differences with fungi. <i>PLoS ONE</i> , 2014 , 9, e91283	3.7	99
59	A continental view of pine-associated ectomycorrhizal fungal spore banks: a quiescent functional guild with a strong biogeographic pattern. <i>New Phytologist</i> , 2015 , 205, 1619-1631	9.8	95
58	Spore heat resistance plays an important role in disturbance-mediated assemblage shift of ectomycorrhizal fungi colonizing <i>Pinus muricata</i> seedlings. <i>Journal of Ecology</i> , 2009 , 97, 537-547	6	93
57	Ectomycorrhizal fungal spore bank recovery after a severe forest fire: some like it hot. <i>ISME Journal</i> , 2016 , 10, 1228-39	11.9	87
56	Spore dispersal of a resupinate ectomycorrhizal fungus, <i>Tomentella sublilacina</i> , via soil food webs. <i>Mycologia</i> , 2005 , 97, 762-769	2.4	80
55	Genome-based estimates of fungal rDNA copy number variation across phylogenetic scales and ecological lifestyles. <i>Molecular Ecology</i> , 2019 , 28, 721-730	5.7	76
54	Genetic isolation between two recently diverged populations of a symbiotic fungus. <i>Molecular Ecology</i> , 2015 , 24, 2747-58	5.7	75
53	Stayin' alive: survival of mycorrhizal fungal propagules from 6-yr-old forest soil. <i>Fungal Ecology</i> , 2012 , 5, 741-746	4.1	70
52	Water transfer via ectomycorrhizal fungal hyphae to conifer seedlings. <i>Mycorrhiza</i> , 2007 , 17, 439-447	3.9	69
51	Phylogenetic relationships among the pine stem rust fungi (<i>Cronartium</i> and <i>Peridermium</i> spp.). <i>Mycologia</i> , 1998 , 90, 244-257	2.4	68
50	Competitive interactions among three ectomycorrhizal fungi and their relation to host plant performance. <i>Journal of Ecology</i> , 2007 , 95, 1338-1345	6	66
49	Isotopic evidence of full and partial myco-heterotrophy in the plant tribe Pyroleae (Ericaceae). <i>New Phytologist</i> , 2009 , 182, 719-726	9.8	65
48	The effects of heat treatments on ectomycorrhizal resistant propagules and their ability to colonize bioassay seedlings. <i>Mycological Research</i> , 2006 , 110, 196-202		61
47	Abundance and distribution of <i>Corallorhiza odontorhiza</i> reflect variations in climate and ectomycorrhizae. <i>Ecological Monographs</i> , 2009 , 79, 619-635	9	57
46	Rhizopogon spore bank communities within and among California pine forests. <i>Mycologia</i> , 2003 , 95, 603-613	12.3	56
45	In vitro germination of nonphotosynthetic, myco-heterotrophic plants stimulated by fungi isolated from the adult plants. <i>New Phytologist</i> , 2000 , 148, 335-342	9.8	55
44	Phylogeny and taxonomy of <i>Macrolepiota</i> (Agaricaceae). <i>Mycologia</i> , 2003 , 95, 442-456	2.4	54

43	Root colonization dynamics of two ectomycorrhizal fungi of contrasting life history strategies are mediated by addition of organic nutrient patches. <i>New Phytologist</i> , 2003 , 159, 141-151	9.8	54
42	Comment on "Global assessment of arbuscular mycorrhizal fungus diversity reveals very low endemism". <i>Science</i> , 2016 , 351, 826	33.3	50
41	Suilloid fungi as global drivers of pine invasions. <i>New Phytologist</i> , 2019 , 222, 714-725	9.8	50
40	A unique signal distorts the perception of species richness and composition in high-throughput sequencing surveys of microbial communities: a case study of fungi in indoor dust. <i>Microbial Ecology</i> , 2013 , 66, 735-41	4.4	46
39	Competition-colonization tradeoffs structure fungal diversity. <i>ISME Journal</i> , 2018 , 12, 1758-1767	11.9	45
38	Molecular revisitation of the genus <i>Gastrosuillus</i> . <i>Mycologia</i> , 1997 , 89, 586-589	2.4	43
37	Passive dust collectors for assessing airborne microbial material. <i>Microbiome</i> , 2015 , 3, 46	16.6	41
36	Nitrogen and ectomycorrhizal fungal communities: what we know, what we need to know. <i>New Phytologist</i> , 2001 , 149, 156-158	9.8	41
35	Water sources and controls on water-loss rates of epigeous ectomycorrhizal fungal sporocarps during summer drought. <i>New Phytologist</i> , 2009 , 182, 483-494	9.8	40
34	Glomeromycotina: what is a species and why should we care?. <i>New Phytologist</i> , 2018 , 220, 963-967	9.8	40
33	Regional specialization of <i>Sarcodes sanguinea</i> (Ericaceae) on a single fungal symbiont from the <i>Rhizopogon ellena</i> (<i>Rhizopogonaceae</i>) species complex. <i>American Journal of Botany</i> , 2000 , 87, 1778-1782	2.7	37
32	Heterokaryosis is not required for virulence of <i>Heterobasidion annosum</i> . <i>Mycologia</i> , 1997 , 89, 92-102	2.4	36
31	Cryptic species in the <i>Puccinia monoica</i> complex. <i>Mycologia</i> , 1998 , 90, 846-853	2.4	35
30	Fungi isolated from <i>Miscanthus</i> and sugarcane: biomass conversion, fungal enzymes, and hydrolysis of plant cell wall polymers. <i>Biotechnology for Biofuels</i> , 2015 , 8, 38	7.8	34
29	Microbes and associated soluble and volatile chemicals on periodically wet household surfaces. <i>Microbiome</i> , 2017 , 5, 128	16.6	34
28	Molecular phylogeny of the arbuscular mycorrhizal fungi <i>Glomus sinuosum</i> and <i>Sclerocystis coremioides</i> . <i>Mycologia</i> , 2000 , 92, 282-285	2.4	32
27	Continental-level population differentiation and environmental adaptation in the mushroom <i>Suillus brevipes</i> . <i>Molecular Ecology</i> , 2017 , 26, 2063-2076	5.7	27
26	Heterokaryosis Is Not Required for Virulence of <i>Heterobasidion annosum</i> . <i>Mycologia</i> , 1997 , 89, 92	2.4	23

25	Survey of corticioid fungi in North American pinaceous forests reveals hyperdiversity, underpopulated sequence databases, and species that are potentially ectomycorrhizal. <i>Mycologia</i> , 2017 , 109, 115-127	2.4	22
24	The theory of island biogeography applies to ectomycorrhizal fungi in subalpine tree islands at a fine scale. <i>Ecosphere</i> , 2017 , 8, e01677	3.1	21
23	Spatial structure and richness of ectomycorrhizal fungi colonizing bioassay seedlings from resistant propagules in a Sierra Nevada forest: comparisons using two hosts that exhibit different seedling establishment patterns. <i>Mycologia</i> , 2006 , 98, 374-383	2.4	20
22	Phylogenetic assessment of global Suillus ITS sequences supports morphologically defined species and reveals synonymous and undescribed taxa. <i>Mycologia</i> , 2016 , 108, 1216-1228	2.4	18
21	Ectomycorrhizal fungal diversity predicted to substantially decline due to climate changes in North American Pinaceae forests. <i>Journal of Biogeography</i> , 2020 , 47, 772-782	4.1	17
20	Small-scale spatial variability in the distribution of ectomycorrhizal fungi affects plant performance and fungal diversity. <i>Ecology Letters</i> , 2017 , 20, 1192-1202	1.0	15
19	Pyrophilous fungi detected after wildfires in the Great Smoky Mountains National Park expand known species ranges and biodiversity estimates. <i>Mycologia</i> , 2020 , 112, 677-698	2.4	12
18	Wild boars as spore dispersal agents of ectomycorrhizal fungi: consequences for community composition at different habitat types. <i>Mycorrhiza</i> , 2017 , 27, 165-174	3.9	12
17	The developing relationship between the study of fungal communities and community ecology theory. <i>Fungal Ecology</i> , 2019 , 39, 393-402	4.1	11
16	A simple pyrocosm for studying soil microbial response to fire reveals a rapid, massive response by Pyronema species. <i>PLoS ONE</i> , 2020 , 15, e0222691	3.7	10
15	Symbiotic interactions above treeline of long-lived pines: Mycorrhizal advantage of limber pine (<i>Pinus flexilis</i>) over Great Basin bristlecone pine (<i>Pinus longaeva</i>) at the seedling stage. <i>Journal of Ecology</i> , 2020 , 108, 908-916	6	10
14	Testing the ecological stability of ectomycorrhizal symbiosis: effects of heat, ash and mycorrhizal colonization on <i>Pinus muricata</i> seedling performance. <i>Plant and Soil</i> , 2010 , 330, 291-302	4.2	9
13	<i>Suillus quiescens</i> , a new species commonly found in the spore bank in California and Oregon. <i>Mycologia</i> , 2010 , 102, 438-46	2.4	8
12	Isolation and characterization of microsatellite loci from the truffle-like ectomycorrhizal fungi <i>Rhizopogon occidentalis</i> and <i>Rhizopogon vulgaris</i> . <i>Molecular Ecology Notes</i> , 2005 , 5, 608-610		7
11	increases its inoculum potential in heated soil independent of competitive release from other ectomycorrhizal fungi. <i>Mycologia</i> , 2019 , 111, 936-941	2.4	5
10	Comparative genomics of pyrophilous fungi reveals a link between fire events and developmental genes. <i>Environmental Microbiology</i> , 2021 , 23, 99-109	5.2	3
9	A simple pyrocosm for studying soil microbial response to fire reveals a rapid, massive response by <i>Pyronema</i> species		
8	High resilience of the mycorrhizal community to prescribed seasonal burnings in eastern Mediterranean woodlands. <i>Mycorrhiza</i> , 2021 , 31, 203-216	3.9	1

- 7 A non-linear effect of the spatial structure of the soil ectomycorrhizal spore bank on the performance of pine seedlings. *Mycorrhiza*, **2021**, 31, 325-333 3.9 0
- 6 A simple pyrocosm for studying soil microbial response to fire reveals a rapid, massive response by Pyronema species **2020**, 15, e0222691
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