

D Lee Taylor

List of Publications by Year in descending order

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80
papers

9,274
citations

66343
42
h-index

71685
76
g-index

80
all docs

80
docs citations

80
times ranked

9098
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a unified paradigm for sequence-based identification of fungi. <i>Molecular Ecology</i> , 2013, 22, 5271-5277.	3.9	2,997
2	Community structure of ectomycorrhizal fungi in a <i>Pinus muricata</i> forest: minimal overlap between the mature forest and resistant propagule communities. <i>Molecular Ecology</i> , 1999, 8, 1837-1850.	3.9	381
3	Accurate Estimation of Fungal Diversity and Abundance through Improved Lineage-Specific Primers Optimized for Illumina Amplicon Sequencing. <i>Applied and Environmental Microbiology</i> , 2016, 82, 7217-7226.	3.1	321
4	A first comprehensive census of fungi in soil reveals both hyperdiversity and fine-scale niche partitioning. <i>Ecological Monographs</i> , 2014, 84, 3-20.	5.4	293
5	A sequence database for the identification of ectomycorrhizal basidiomycetes by phylogenetic analysis. <i>Molecular Ecology</i> , 1998, 7, 257-272.	3.9	276
6	Independent, specialized invasions of ectomycorrhizal mutualism by two nonphotosynthetic orchids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 4510-4515.	7.1	258
7	Internal transcribed spacer primers and sequences for improved characterization of basidiomycetous orchid mycorrhizas. <i>New Phytologist</i> , 2008, 177, 1020-1033.	7.3	255
8	Host Specificity in Ectomycorrhizal Communities: What Do the Exceptions Tell Us?. <i>Integrative and Comparative Biology</i> , 2002, 42, 352-359.	2.0	226
9	Symbiotic germination and development of the myco-heterotrophic orchid <i>Neottia nidus-avis</i> in nature and its requirement for locally distributed <i>Sebacina</i> spp.. <i>New Phytologist</i> , 2002, 154, 233-247.	7.3	203
10	Detection of forest stand-level spatial structure in ectomycorrhizal fungal communities. <i>FEMS Microbiology Ecology</i> , 2004, 49, 319-332.	2.7	200
11	Stable isotope fingerprinting: a novel method for identifying plant, fungal, or bacterial origins of amino acids. <i>Ecology</i> , 2009, 90, 3526-3535.	3.2	188
12	An empirical test of partner choice mechanisms in a wild legume-rhizobium interaction. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 77-81.	2.6	180
13	Partner Choice in Nitrogen-Fixation Mutualisms of Legumes and Rhizobia. <i>Integrative and Comparative Biology</i> , 2002, 42, 369-380.	2.0	174
14	High specificity generally characterizes mycorrhizal association in rare lady's slipper orchids, genus <i>Cypripedium</i> . <i>Molecular Ecology</i> , 2005, 14, 613-626.	3.9	171
15	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, 1719-1732.	3.9	157
16	Symbiotic germination and development of myco-heterotrophic plants in nature: ontogeny of <i>Corallorhiza trifida</i> and characterization of its mycorrhizal fungi. <i>New Phytologist</i> , 2000, 145, 523-537.	7.3	147
17	Beringian origins and cryptic speciation events in the fly agaric (<i>Amanita muscaria</i>). <i>Molecular Ecology</i> , 2005, 15, 225-239.	3.9	143
18	An arctic community of symbiotic fungi assembled by long-distance dispersers: phylogenetic diversity of ectomycorrhizal basidiomycetes in Svalbard based on soil and sporocarp DNA. <i>Journal of Biogeography</i> , 2012, 39, 74-88.	3.0	143

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19	Divergence in mycorrhizal specialization within <i>Hexalectris spicata</i> (Orchidaceae), a nonphotosynthetic desert orchid. <i>American Journal of Botany</i> , 2003, 90, 1168-1179.	1.7	141
20	Rich and cold: diversity, distribution and drivers of fungal communities in patterned ground ecosystems of the Northern American Arctic. <i>Molecular Ecology</i> , 2014, 23, 3258-3272.	3.9	134
21	THE EVOLUTIONARY HISTORY OF MYCORRHIZAL SPECIFICITY AMONG LADY'S SLIPPER ORCHIDS. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 1380-1390.	2.3	129
22	Resilience of Alaska's boreal forest to climatic changeThis article is one of a selection of papers from The Dynamics of Change in Alaska's Boreal Forests: Resilience and Vulnerability in Response to Climate Warming.. <i>Canadian Journal of Forest Research</i> , 2010, 40, 1360-1370.	1.7	125
23	Limitations on orchid recruitment: not a simple picture. <i>Molecular Ecology</i> , 2012, 21, 1511-1523.	3.9	122
24	Evidence for strong inter- and intracontinental phylogeographic structure in <i>Amanita muscaria</i> , a wind-dispersed ectomycorrhizal basidiomycete. <i>Molecular Phylogenetics and Evolution</i> , 2008, 48, 694-701.	2.7	113
25	Identification of mycorrhizal fungi from single pellets of <i>Dactylorhiza majalis</i> (Orchidaceae) using single-strand conformation polymorphism and mitochondrial ribosomal large subunit DNA sequences. <i>Molecular Ecology</i> , 2001, 10, 2089-2093.	3.9	97
26	Evidence for mycorrhizal races in a cheating orchid. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 35-43.	2.6	95
27	Structure and resilience of fungal communities in Alaskan boreal forest soilsThis article is one of a selection of papers from The Dynamics of Change in Alaska's Boreal Forests: Resilience and Vulnerability in Response to Climate Warming.. <i>Canadian Journal of Forest Research</i> , 2010, 40, 1288-1301.	1.7	84
28	Abundance and distribution of <i>Corallorhiza odontorhiza</i> reflect variations in climate and ectomycorrhizae. <i>Ecological Monographs</i> , 2009, 79, 619-635.	5.4	72
29	Peeking through a frosty window: molecular insights into the ecology of Arctic soil fungi. <i>Fungal Ecology</i> , 2012, 5, 419-429.	1.6	67
30	Nitrogen deposition alters plant-fungal relationships: linking belowground dynamics to aboveground vegetation change. <i>Molecular Ecology</i> , 2014, 23, 1364-1378.	3.9	65
31	Rangewide analysis of fungal associations in the fully mycoheterotrophic <i>Corallorhiza striata</i> complex (Orchidaceae) reveals extreme specificity on ectomycorrhizal <i>Tomentella</i> (Thelephoraceae) across North America. <i>American Journal of Botany</i> , 2010, 97, 628-643.	1.7	63
32	TOPO TA is A-OK: a test of phylogenetic bias in fungal environmental clone library construction. <i>Environmental Microbiology</i> , 2007, 9, 1329-1334.	3.8	60
33	Surviving climate changes: high genetic diversity and transoceanic gene flow in two arctic alpine lichens, <i>Flavocetraria cucullata</i> and <i>F. nivalis</i> (Parmeliaceae, Ascomycota). <i>Journal of Biogeography</i> , 2010, 37, 1529-1542.	3.0	60
34	Molecular phylogenetic biodiversity assessment of arctic and boreal ectomycorrhizal <i>Lactarius</i> (Russulales; Basidiomycota) in Alaska, based on soil and sporocarp DNA. <i>Molecular Ecology</i> , 2009, 18, 2213-2227.	3.9	59
35	A narrowly endemic photosynthetic orchid is non-specific in its mycorrhizal associations. <i>Molecular Ecology</i> , 2013, 22, 2341-2354.	3.9	58
36	Root-Associated Ectomycorrhizal Fungi Shared by Various Boreal Forest Seedlings Naturally Regenerating after a Fire in Interior Alaska and Correlation of Different Fungi with Host Growth Responses. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3351-3359.	3.1	55

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37	Germination patterns in three terrestrial orchids relate to abundance of mycorrhizal fungi. <i>Journal of Ecology</i> , 2016, 104, 744-754.	4.0	52
38	Below-ground plant traits influence tundra plant acquisition of newly thawed permafrost nitrogen. <i>Journal of Ecology</i> , 2019, 107, 950-962.	4.0	51
39	Mycorrhizal specificity in the fully mycoheterotrophic <i>Hexalectris</i> Raf. (Orchidaceae). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 T</i>	3.9	49
40	Phylogenetic and ecological analyses of soil and sporocarp DNA sequences reveal high diversity and strong habitat partitioning in the boreal ectomycorrhizal genus <i>Russula</i> (Russulales). <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	4.5	617
41	Increasing ecological inference from high throughput sequencing of fungi in the environment through a tagging approach. <i>Molecular Ecology Resources</i> , 2008, 8, 742-752.	4.8	45
42	Change in soil fungal community structure driven by a decline in ectomycorrhizal fungi following a mountain pine beetle (<i>Dendroctonus ponderosae</i>) outbreak. <i>New Phytologist</i> , 2017, 213, 864-873.	7.3	45
43	Frequent circumarctic and rare transequatorial dispersals in the lichenised agaric genus <i>Lichenomphalia</i> (Hygrophoraceae, Basidiomycota). <i>Fungal Biology</i> , 2012, 116, 388-400.	2.5	43
44	Molecular diversity assessment of arctic and boreal <i>Agaricus</i> taxa. <i>Mycologia</i> , 2008, 100, 577-589.	1.9	40
45	Meeting Report: Fungal ITS Workshop (October 2012). <i>Standards in Genomic Sciences</i> , 2013, 8, 118-123.	1.5	34
46	Mycobiont contribution to tundra plant acquisition of permafrost-derived nitrogen. <i>New Phytologist</i> , 2020, 226, 126-141.	7.3	34
47	The Soil Fungi. , 2015, , 77-109.		33
48	Resilience of Arctic mycorrhizal fungal communities after wildfire facilitated by resprouting shrubs. <i>Ecoscience</i> , 2013, 20, 296-310.	1.4	32
49	The potential for mycobiont sharing between shrubs and seedlings to facilitate tree establishment after wildfire at Alaska arctic treeline. <i>Molecular Ecology</i> , 2017, 26, 3826-3838.	3.9	32
50	Host species and habitat affect nodulation by specific Frankia genotypes in two species of <i>Alnus</i> in interior Alaska. <i>Oecologia</i> , 2009, 160, 619-630.	2.0	27
51	Intercontinental divergence in the <i>Populus</i> -associated ectomycorrhizal fungus, <i>Tricholoma populinum</i> . <i>New Phytologist</i> , 2012, 194, 548-560.	7.3	26
52	Fire-severity effects on plant-fungal interactions after a novel tundra wildfire disturbance: implications for arctic shrub and tree migration. <i>BMC Ecology</i> , 2016, 16, 25.	3.0	26
53	Altitudinal gradients fail to predict fungal symbiont responses to warming. <i>Ecology</i> , 2019, 100, e02740.	3.2	25
54	Myco-heterotroph-fungus marriages "is fidelity over-rated?". <i>New Phytologist</i> , 2004, 163, 217-221.	7.3	24

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55	Ecosystem-level consequences of symbiont partnerships in an N-fixing shrub from interior Alaskan floodplains. <i>Ecological Monographs</i> , 2013, 83, 177-194.	5.4	23
56	A Bioinformatics Pipeline for Sequence-Based Analyses of Fungal Biodiversity. <i>Methods in Molecular Biology</i> , 2011, 722, 141-155.	0.9	22
57	Phylogeny of <i>Fomitopsis pinicola</i> : a species complex. <i>Mycologia</i> , 2016, 108, 925-938.	1.9	20
58	Plant Identity Influences Foliar Fungal Symbionts More Than Elevation in the Colorado Rocky Mountains. <i>Microbial Ecology</i> , 2019, 78, 688-698.	2.8	20
59	Phosphorus Mobilizing Enzymes of <i>Alnus</i> -Associated Ectomycorrhizal Fungi in an Alaskan Boreal Floodplain. <i>Forests</i> , 2019, 10, 554.	2.1	19
60	Archaeorhizomycetes: Patterns of Distribution and Abundance in Soil. <i>Soil Biology</i> , 2013, , 333-349.	0.8	19
61	Rivers may constitute an overlooked avenue of dispersal for terrestrial fungi. <i>Fungal Ecology</i> , 2018, 32, 72-79.	1.6	18
62	<i>Fomitopsis mounceae</i> and <i>F. schrenkii</i> “two new species from North America in the <i>F. pinicola</i> complex. <i>Mycologia</i> , 2019, 111, 339-357.	1.9	18
63	Evaluation of the authenticity of a highly novel environmental sequence from boreal forest soil using ribosomal RNA secondary structure modeling. <i>Molecular Phylogenetics and Evolution</i> , 2013, 67, 234-245.	2.7	16
64	A new dawn “ the ecological genetics of mycorrhizal fungi. <i>New Phytologist</i> , 2000, 147, 236-239.	7.3	14
65	Getting to the root of the matter: landscape implications of plant-fungal interactions for tree migration in Alaska. <i>Landscape Ecology</i> , 2016, 31, 895-911.	4.2	13
66	Uncommon ectomycorrhizal networks: richness and distribution of <i>Alnus</i> “ associating ectomycorrhizal fungal communities. <i>New Phytologist</i> , 2013, 198, 978-980.	7.3	12
67	Direct amplification of DNA from fresh and preserved ectomycorrhizal root tips. <i>Journal of Microbiological Methods</i> , 2010, 80, 206-208.	1.6	11
68	Grass species identity shapes communities of root and leaf fungi more than elevation. <i>ISME Communications</i> , 2022, 2, .	4.2	11
69	Variable retention harvesting influences belowground plant-fungal interactions of <i>Nothofagus pumilio</i> seedlings in forests of southern Patagonia. <i>PeerJ</i> , 2018, 6, e5008.	2.0	9
70	Progress and Prospects for the Ecological Genetics of Mycoheterotrophs. , 2013, , 245-266.		8
71	Phylogeny and assemblage composition of <i>Frankia</i> in <i>Alnus tenuifolia</i> nodules across a primary successional sere in interior Alaska. <i>Molecular Ecology</i> , 2013, 22, 3864-3877.	3.9	7
72	Epiphytic fungal communities vary by substrate type and at submetre spatial scales. <i>Molecular Ecology</i> , 2022, 31, 1879-1891.	3.9	7

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73	Phylogeographic Analyses of a Boreal-Temperate Ectomycorrhizal Basidiomycete, <i>Amanita Muscaria</i> , Suggest Forest Refugia in Alaska During the Last Glacial Maximum. , 2010, , 173-186.		5
74	Microsatellite loci development in mycoheterotrophic <i>Corallorhiza maculata</i> (Orchidaceae) with amplification in <i>C. mertensiana</i> . American Journal of Botany, 2011, 98, e253-e255.	1.7	5
75	Culturable root endophyte communities are shaped by both warming and plant host identity in the Rocky Mountains, USA. Fungal Ecology, 2021, 49, 101002.	1.6	5
76	Isolation and characterization of new polymorphic microsatellite loci in the mixotrophic orchid <i>Limodorum abortivum</i> L. Swartz (Orchidaceae). Molecular Ecology Resources, 2008, 8, 1117-1120.	4.8	4
77	Limited overall impacts of ectomycorrhizal inoculation on recruitment of boreal trees into Arctic tundra following wildfire belie species-specific responses. PLoS ONE, 2020, 15, e0235932.	2.5	4
78	Soil fungal composition changes with shrub encroachment in the northern Chihuahuan Desert. Fungal Ecology, 2021, 53, 101096.	1.6	4
79	Habitat preferences, distribution, and temporal persistence of a novel fungal taxon in Alaskan boreal forest soils. Fungal Ecology, 2014, 12, 70-77.	1.6	3
80	Increasing ecological inference from high throughput sequencing of fungi in the environment through a tagging approach. Molecular Ecology Resources, 2008, .	4.8	0