

# Convergent losses of decay mechanisms and rapid turn mycorrhizal mutualists

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Comparative genomics, proteomics and transcriptomics give new insight into the exoproteome of the basidiomycete <i>Hyaloscypha cylindrospora</i> and its involvement in ectomycorrhizal symbiosis. <i>New Phytologist</i> , 2015, 208, 1169-1187.	3.5	78
2	Diversity and evolution of ABC proteins in mycorrhiza-forming fungi. <i>BMC Evolutionary Biology</i> , 2015, 15, 249.	3.2	19
3	Grouping of multicopper oxidases in <i>Lentinula edodes</i> by sequence similarities and expression patterns. <i>AMB Express</i> , 2015, 5, 63.	1.4	21
4	Symbiotic Proteomics – State of the Art in Plant-Mycorrhizal Fungi Interactions. , 0, , .		3
5	Comparative Analysis of Secretomes from Ectomycorrhizal Fungi with an Emphasis on Small-Secreted Proteins. <i>Frontiers in Microbiology</i> , 2015, 6, 1278.	1.5	127
6	Evidences on the Ability of Mycorrhizal Genus <i>Piloderma</i> to Use Organic Nitrogen and Deliver It to Scots Pine. <i>PLoS ONE</i> , 2015, 10, e0131561.	1.1	30
8	Functional guild classification predicts the enzymatic role of fungi in litter and soil biogeochemistry. <i>Soil Biology and Biochemistry</i> , 2015, 88, 441-456.	4.2	121
9	<i>Tricholoma vaccinum</i> host communication during ectomycorrhiza formation. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv120.	1.3	15
10	Mycorrhiza Specificity: Its Role in the Development and Function of Common Mycelial Networks. <i>Ecological Studies</i> , 2015, , 1-39.	0.4	35
11	Evolution of novel wood decay mechanisms in Agaricales revealed by the genome sequences of <i>Fistulina hepatica</i> and <i>Cylindrobasidium torrendii</i> . <i>Fungal Genetics and Biology</i> , 2015, 76, 78-92.	0.9	141
12	Genetic isolation between two recently diverged populations of a symbiotic fungus. <i>Molecular Ecology</i> , 2015, 24, 2747-2758.	2.0	100
13	The shape of fungal ecology: does spore morphology give clues to a species' niche?. <i>Fungal Ecology</i> , 2015, 17, 213-216.	0.7	37
14	Reconsidering mutualistic plant-fungal interactions through the lens of effector biology. <i>Current Opinion in Plant Biology</i> , 2015, 26, 45-50.	3.5	87
15	Plant-associated fungal communities in the light of metatranscriptomics. <i>Fungal Diversity</i> , 2015, 75, 1-25.	4.7	147
16	Mutualistic root endophytism is not associated with the reduction of saprotrophic traits and requires a noncompromised plant innate immunity. <i>New Phytologist</i> , 2015, 207, 841-857.	3.5	139
17	Fungal enzymes for environmental management. <i>Current Opinion in Biotechnology</i> , 2015, 33, 268-278.	3.3	140
18	Molecular signals required for the establishment and maintenance of ectomycorrhizal symbioses. <i>New Phytologist</i> , 2015, 208, 79-87.	3.5	139
19	Description of the first fungal dye-decolorizing peroxidase oxidizing manganese(II). <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8927-8942.	1.7	66

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21	Symbiotic plant-fungi interactions stripped down to the root. <i>Nature Genetics</i> , 2015, 47, 309-310.	9.4	6
22	Fungal Community Shifts in Structure and Function across a Boreal Forest Fire Chronosequence. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7869-7880.	1.4	119
23	Three Redundant Synthetases Secure Redox-Active Pigment Production in the Basidiomycete <i>Paxillus involutus</i> . <i>Chemistry and Biology</i> , 2015, 22, 1325-1334.	6.2	44
24	Genome Sequence of <i>Stachybotrys chartarum</i> Strain 51-11. <i>Genome Announcements</i> , 2015, 3, .	0.8	6
25	Involutin Is an Fe <sup>3+</sup> Reductant Secreted by the Ectomycorrhizal Fungus <i>Paxillus involutus</i> during Fenton-Based Decomposition of Organic Matter. <i>Applied and Environmental Microbiology</i> , 2015, 81, 8427-8433.	1.4	49
26	Identification of genes differentially expressed during the interaction between the plant symbiont <i>Suillus luteus</i> and two plant pathogenic allopatric Heterobasidion species. <i>Mycological Progress</i> , 2015, 14, 1.	0.5	14
27	Sugar transporters in the black truffle <i>Tuber melanosporum</i> : from gene prediction to functional characterization. <i>Fungal Genetics and Biology</i> , 2015, 81, 52-61.	0.9	8
28	The carbon starvation response of the ectomycorrhizal fungus <i>Paxillus involutus</i> . <i>FEMS Microbiology Ecology</i> , 2015, 91, .	1.3	29
29	Regulation of Gene Expression during the Onset of Ligninolytic Oxidation by <i>Phanerochaete chrysosporium</i> on Spruce Wood. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7802-7812.	1.4	58
30	A New <i>Oidiodendron maius</i> Strain Isolated from <i>Rhododendron fortunei</i> and its Effects on Nitrogen Uptake and Plant Growth. <i>Frontiers in Microbiology</i> , 2016, 7, 1327.	1.5	45
32	A Survey of the Gene Repertoire of <i>Gigaspora rosea</i> Unravels Conserved Features among Glomeromycota for Obligate Biotrophy. <i>Frontiers in Microbiology</i> , 2016, 7, 233.	1.5	113
33	Comparative Analysis of Secretomes from Ectomycorrhizal Fungi with an Emphasis on Small-Secreted Proteins. <i>Frontiers in Microbiology</i> , 2016, 7, 1734.	1.5	6
34	Transposable Elements versus the Fungal Genome: Impact on Whole-Genome Architecture and Transcriptional Profiles. <i>PLoS Genetics</i> , 2016, 12, e1006108.	1.5	177
35	Editorial: Transport in Plant Microbe Interactions. <i>Frontiers in Plant Science</i> , 2016, 7, 809.	1.7	4
36	Differential Gene Expression in <i>Rhododendron fortunei</i> Roots Colonized by an Ericoid Mycorrhizal Fungus and Increased Nitrogen Absorption and Plant Growth. <i>Frontiers in Plant Science</i> , 2016, 7, 1594.	1.7	21
37	<i>Molecular Ecology</i> , 2016, , 189-203.		0
38	The role of locally adapted mycorrhizas and rhizobacteria in plant-soil feedback systems. <i>Functional Ecology</i> , 2016, 30, 1086-1098.	1.7	184
39	Comparative and transcriptional analysis of the predicted secretome in the lignocellulose-degrading basidiomycete fungus <i>Pleurotus ostreatus</i> . <i>Environmental Microbiology</i> , 2016, 18, 4710-4726.	1.8	77

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40	The biosynthetic pathway of 2-azahypoxanthine in fairy-ring forming fungus. <i>Scientific Reports</i> , 2016, 6, 39087.	1.6	23
42	Globally distributed root endophyte <i>Phialocephala subalpina</i> links pathogenic and saprophytic lifestyles. <i>BMC Genomics</i> , 2016, 17, 1015.	1.2	54
43	Expansion and diversification of the MSDIN family of cyclic peptide genes in the poisonous agarics <i>Amanita phalloides</i> and <i>A. bisporigera</i> . <i>BMC Genomics</i> , 2016, 17, 1038.	1.2	37
44	Revisiting phylogenetic diversity and cryptic species of <i>Cenococcum geophilum sensu lato</i> . <i>Mycorrhiza</i> , 2016, 26, 529-540.	1.3	41
45	Microbial activity in forest soil reflects the changes in ecosystem properties between summer and winter. <i>Environmental Microbiology</i> , 2016, 18, 288-301.	1.8	321
46	Revisiting the "Gadgil effect": do interguild fungal interactions control carbon cycling in forest soils?. <i>New Phytologist</i> , 2016, 209, 1382-1394.	3.5	328
47	Genomic insights into the carbohydrate catabolism of <i>Cairneyella variabilis</i> gen. nov. sp. nov., the first reports from a genome of an ericoid mycorrhizal fungus from the southern hemisphere. <i>Mycorrhiza</i> , 2016, 26, 345-352.	1.3	18
48	Ectomycorrhizal fungi decompose soil organic matter using oxidative mechanisms adapted from saprotrophic ancestors. <i>New Phytologist</i> , 2016, 209, 1705-1719.	3.5	264
50	Understanding plant cell-wall remodelling during the symbiotic interaction between <i>Tuber melanosporum</i> and <i>Corylus avellana</i> using a carbohydrate microarray. <i>Planta</i> , 2016, 244, 347-359.	1.6	24
51	Phosphorus availabilities in beech ( <i>Fagus sylvatica</i> L.) forests impose habitat filtering on ectomycorrhizal communities and impact tree nutrition. <i>Soil Biology and Biochemistry</i> , 2016, 98, 127-137.	4.2	62
52	Transcriptome and Secretome Analyses of the Wood Decay Fungus <i>Wolfiporia cocos</i> Support Alternative Mechanisms of Lignocellulose Conversion. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3979-3987.	1.4	44
53	Extracellular electron transfer systems fuel cellulose oxidative degradation. <i>Science</i> , 2016, 352, 1098-1101.	6.0	368
54	A phylum-level phylogenetic classification of zygomycete fungi based on genome-scale data. <i>Mycologia</i> , 2016, 108, 1028-1046.	0.8	1,092
55	Ecology of the forest microbiome: Highlights of temperate and boreal ecosystems. <i>Soil Biology and Biochemistry</i> , 2016, 103, 471-488.	4.2	140
56	CAZyme content of <i>Pochonia chlamydosporia</i> reflects that chitin and chitosan modification are involved in nematode parasitism. <i>Environmental Microbiology</i> , 2016, 18, 4200-4215.	1.8	41
57	The contribution of ericoid plants to soil nitrogen chemistry and organic matter decomposition in boreal forest soil. <i>Soil Biology and Biochemistry</i> , 2016, 103, 394-404.	4.2	48
58	Bacteria induce pigment formation in the basidiomycete <i>Serpula lacrymans</i> . <i>Environmental Microbiology</i> , 2016, 18, 5218-5227.	1.8	29
59	True Truffle Host Diversity. <i>Soil Biology</i> , 2016, , 267-281.	0.6	9

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60	Truffle-Associated Bacteria: Extrapolation from Diversity to Function. <i>Soil Biology</i> , 2016, , 301-317.	0.6	13
61	Ericoid fungal diversity: Challenges and opportunities for mycorrhizal research. <i>Fungal Ecology</i> , 2016, 24, 114-123.	0.7	59
62	Take a Trip Through the Plant and Fungal Transportome of Mycorrhiza. <i>Trends in Plant Science</i> , 2016, 21, 937-950.	4.3	192
63	Truffle Genomics: Investigating an Early Diverging Lineage of Pezizomycotina. <i>Soil Biology</i> , 2016, , 137-149.	0.6	2
64	Tales from the crypt: genome mining from fungarium specimens improves resolution of the mushroom tree of life. <i>Biological Journal of the Linnean Society</i> , 2016, 117, 11-32.	0.7	77
65	The Mutualistic Niche: Mycorrhizal Symbiosis and Community Dynamics. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2016, 47, 143-164.	3.8	108
66	Fungal biomass and extracellular enzyme activities in coarse woody debris of 13 tree species in the early phase of decomposition. <i>Forest Ecology and Management</i> , 2016, 378, 181-192.	1.4	51
67	Vertical and seasonal dynamics of fungal communities in boreal Scots pine forest soil. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw170.	1.3	84
68	Lytic Polysaccharide Monooxygenases: The Microbial Power Tool for Lignocellulose Degradation. <i>Trends in Plant Science</i> , 2016, 21, 926-936.	4.3	148
69	Mycorrhizal Fungi, Evolution and Diversification of. , 2016, , 94-99.		7
70	The good, the bad and the tasty: The many roles of mushrooms. <i>Studies in Mycology</i> , 2016, 85, 125-157.	4.5	81
71	Soil metaproteomics reveals an inter-kingdom stress response to the presence of black truffles. <i>Scientific Reports</i> , 2016, 6, 25773.	1.6	56
72	Forest microbiome: diversity, complexity and dynamics. <i>FEMS Microbiology Reviews</i> , 2017, 41, fuw040.	3.9	339
73	Ectomycorrhizal ecology is imprinted in the genome of the dominant symbiotic fungus <i>Cenococcum geophilum</i> . <i>Nature Communications</i> , 2016, 7, 12662.	5.8	156
74	Genes conserved for arbuscular mycorrhizal symbiosis identified through phylogenomics. <i>Nature Plants</i> , 2016, 2, 15208.	4.7	206
75	Survival trade-offs in plant roots during colonization by closely related beneficial and pathogenic fungi. <i>Nature Communications</i> , 2016, 7, 11362.	5.8	214
92	Unearthing the roots of ectomycorrhizal symbioses. <i>Nature Reviews Microbiology</i> , 2016, 14, 760-773.	13.6	317
93	Lytic polysaccharide monooxygenases: a crystallographer's view on a new class of biomass-degrading enzymes. <i>IUCrj</i> , 2016, 3, 448-467.	1.0	84

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94	Mycorrhizal and saprotrophic fungal guilds compete for the same organic substrates but affect decomposition differently. <i>Functional Ecology</i> , 2016, 30, 1967-1978.	1.7	191
95	Dissecting endophytic lifestyle along the parasitism/mutualism continuum in <i>Arabidopsis</i> . <i>Current Opinion in Microbiology</i> , 2016, 32, 103-112.	2.3	102
96	Biological Potential of Arbuscular Mycorrhizal Fungi. , 2016, , 127-135.		1
97	Divergent and Convergent Evolution of Fungal Pathogenicity. <i>Genome Biology and Evolution</i> , 2016, 8, 1374-1387.	1.1	157
98	RiPEIP1, a gene from the arbuscular mycorrhizal fungus <i>Rhizophagus irregularis</i> , is preferentially expressed in planta and may be involved in root colonization. <i>Mycorrhiza</i> , 2016, 26, 609-621.	1.3	20
99	Dimensions of biodiversity in the Earth mycobiome. <i>Nature Reviews Microbiology</i> , 2016, 14, 434-447.	13.6	477
100	Dehydrogenase genes in the ectomycorrhizal fungus <i>Tricholoma vaccinum</i> : A role for Ald1 in mycorrhizal symbiosis. <i>Journal of Basic Microbiology</i> , 2016, 56, 162-174.	1.8	7
101	Into and out of the tropics: global diversification patterns in a hyperdiverse clade of ectomycorrhizal fungi. <i>Molecular Ecology</i> , 2016, 25, 630-647.	2.0	108
102	E <sub>ffector</sub> P: predicting fungal effector proteins from secretomes using machine learning. <i>New Phytologist</i> , 2016, 210, 743-761.	3.5	438
103	Sebacinales “one thousand and one interactions with land plants. <i>New Phytologist</i> , 2016, 211, 20-40.	3.5	274
104	Phylogenomic analysis supports a recent change in nitrate assimilation in the White-nose Syndrome pathogen, <i>Pseudogymnoascus destructans</i> . <i>Fungal Ecology</i> , 2016, 23, 20-29.	0.7	7
105	Genome-Wide Survey of Gut Fungi (Harpellales) Reveals the First Horizontally Transferred Ubiquitin Gene from a Mosquito Host. <i>Molecular Biology and Evolution</i> , 2016, 33, 2544-2554.	3.5	28
106	Model systems to unravel the molecular mechanisms of heavy metal tolerance in the ericoid mycorrhizal symbiosis. <i>Mycorrhiza</i> , 2016, 26, 263-274.	1.3	51
107	Delayed fungal evolution did not cause the Paleozoic peak in coal production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2442-2447.	3.3	107
108	Agricultural matrix affects differently the alpha and beta structural and functional diversity of soil microbial communities in a fragmented Mediterranean holm oak forest. <i>Soil Biology and Biochemistry</i> , 2016, 92, 79-90.	4.2	50
109	Comparative Genomics of Early-Diverging Mushroom-Forming Fungi Provides Insights into the Origins of Lignocellulose Decay Capabilities. <i>Molecular Biology and Evolution</i> , 2016, 33, 959-970.	3.5	213
110	De novo transcriptomic assembly and profiling of <i>Rigidoporus microporus</i> during saprotrophic growth on rubber wood. <i>BMC Genomics</i> , 2016, 17, 234.	1.2	12
111	Mycorrhizal symbioses: today and tomorrow. <i>New Phytologist</i> , 2016, 209, 917-920.	3.5	14

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112	10 Mycorrhizal Fungi and the Soil Carbon and Nutrient Cycling. , 2016, , 189-203.		2
113	Endogenous rhythmic growth, a trait suitable for the study of interplays between multitrophic interactions and tree development. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2016, 19, 40-48.	1.1	20
114	Stimulation of soil organic nitrogen pool: The effect of plant and soil organic matter degrading enzymes. <i>Soil Biology and Biochemistry</i> , 2016, 96, 97-106.	4.2	56
115	Dividing the Large Glycoside Hydrolase Family 43 into Subfamilies: a Motivation for Detailed Enzyme Characterization. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1686-1692.	1.4	173
116	Biocatalytic portfolio of Basidiomycota. <i>Current Opinion in Chemical Biology</i> , 2016, 31, 40-49.	2.8	55
117	The cryptic Sebaciniales: An obscure but ubiquitous group of root symbionts comes to light. <i>Fungal Ecology</i> , 2016, 22, 115-119.	0.7	8
118	The genome of <i>Xylona heveae</i> provides a window into fungal endophytism. <i>Fungal Biology</i> , 2016, 120, 26-42.	1.1	72
119	Friends or foes? Emerging insights from fungal interactions with plants. <i>FEMS Microbiology Reviews</i> , 2016, 40, 182-207.	3.9	238
120	Beyond the water column: aquatic hyphomycetes outside their preferred habitat. <i>Fungal Ecology</i> , 2016, 19, 112-127.	0.7	87
121	Involvement of FST1 from <i>Fusarium verticillioides</i> in virulence and transport of inositol. <i>Molecular Plant Pathology</i> , 2017, 18, 695-707.	2.0	0
122	Effect of soil moisture on root-associated fungal communities of <i>Erica dominans</i> in Drakensberg mountains in South Africa. <i>Mycorrhiza</i> , 2017, 27, 397-406.	1.3	12
123	Mixotrophy everywhere on land and in water: the grand Å©cart hypothesis. <i>Ecology Letters</i> , 2017, 20, 246-263.	3.0	145
124	Interactive plant functional group and water table effects on decomposition and extracellular enzyme activity in Sphagnum peatlands. <i>Soil Biology and Biochemistry</i> , 2017, 108, 1-8.	4.2	41
125	The ectomycorrhizal basidiomycete <i>Hebeloma cylindrosporum</i> undergoes early waves of transcriptional reprogramming prior to symbiotic structures differentiation. <i>Environmental Microbiology</i> , 2017, 19, 1338-1354.	1.8	22
126	Shift in fungal communities and associated enzyme activities along an age gradient of managed <i>Pinus sylvestris</i> stands. <i>ISME Journal</i> , 2017, 11, 863-874.	4.4	192
127	Biology, dynamics, and applications of transposable elements in basidiomycete fungi. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1337-1350.	1.7	35
128	Comparative genomics and expression levels of hydrophobins from eight mycorrhizal genomes. <i>Mycorrhiza</i> , 2017, 27, 383-396.	1.3	22
129	Comment on "Mycorrhizal association as a primary control of the CO <sub>2</sub> fertilization effect". <i>Science</i> , 2017, 355, 358-358.	6.0	16

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130	The transcriptional landscape of basidiosporogenesis in mature <i>Pisolithus microcarpus</i> basidiocarp. <i>BMC Genomics</i> , 2017, 18, 157.	1.2	3
132	A bioinformatics analysis of 3400 lytic polysaccharide oxidases from family AA9. <i>Carbohydrate Research</i> , 2017, 448, 166-174.	1.1	55
133	Comparative Genomics of the Ectomycorrhizal Sister Species <i>Rhizopogon vinicolor</i> and <i>Rhizopogon vesiculosus</i> (Basidiomycota: Boletales) Reveals a Divergence of the Mating Type <i>B</i> Locus. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 1775-1789.	0.8	17
134	Evolution, structure and membrane association of NDUF6, an assembly factor for NADH:ubiquinone oxidoreductase (Complex I). <i>Mitochondrion</i> , 2017, 35, 13-22.	1.6	12
135	Improved endoglucanase production and mycelial biomass of some ericoid fungi. <i>AMB Express</i> , 2017, 7, 15.	1.4	7
136	Arbuscular Mycorrhizal Fungi: Evolution and Functions in Alleviating Plant Drought Stress. , 2017, , 285-295.		2
137	Early-successional ectomycorrhizal fungi effectively support extracellular enzyme activities and seedling nitrogen accumulation in mature forests. <i>Mycorrhiza</i> , 2017, 27, 247-260.	1.3	13
138	Fungal secretomics to probe the biological functions of lytic polysaccharide monoxygenases. <i>Carbohydrate Research</i> , 2017, 448, 155-160.	1.1	48
139	Growth of <i>Amanita caesarea</i> in the presence of <i>Pseudomonas fluorescens</i> and <i>Bacillus cereus</i> . <i>Fungal Biology</i> , 2017, 121, 825-833.	1.1	4
140	Ancestral alliances: Plant mutualistic symbioses with fungi and bacteria. <i>Science</i> , 2017, 356, .	6.0	333
141	Soil receptivity for ectomycorrhizal fungi: <i>Tuber aestivum</i> is specifically stimulated by calcium carbonate and certain organic compounds, but not mycorrhizospheric bacteria. <i>Applied Soil Ecology</i> , 2017, 117-118, 38-45.	2.1	5
142	Identification, evolution and functional characterization of two Zn CDF family transporters of the ectomycorrhizal fungus <i>Suillus luteus</i> . <i>Environmental Microbiology Reports</i> , 2017, 9, 419-427.	1.0	24
143	Growing evidence for facultative biotrophy in saprotrophic fungi: data from microcosm tests with 201 species of wood-decay basidiomycetes. <i>New Phytologist</i> , 2017, 215, 747-755.	3.5	66
144	A new promising phylogenetic marker to study the diversity of fungal communities: The <i>Glycoside Hydrolase</i> 63 gene. <i>Molecular Ecology Resources</i> , 2017, 17, e1-e11.	2.2	15
145	A novel, highly conserved metallothionein family in basidiomycete fungi and characterization of two representative <i>SIMTa</i> and <i>SIMTb</i> genes in the ectomycorrhizal fungus <i>Suillus luteus</i> . <i>Environmental Microbiology</i> , 2017, 19, 2577-2587.	1.8	26
146	Quantitative Resistance: More Than Just Perception of a Pathogen. <i>Plant Cell</i> , 2017, 29, 655-665.	3.1	179
147	<i>Lentinula edodes</i> Genome Survey and Postharvest Transcriptome Analysis. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	58
148	Mycorrhizal Symbioses and Pedogenesis Throughout Earth's History. , 2017, , 9-33.		18

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149	Accessibility of Inorganic and Organic Nutrients for Mycorrhizas. , 2017, , 129-148.		34
151	Carbon and Energy Sources of Mycorrhizal Fungi. , 2017, , 357-374.		15
152	Immobilization of Carbon in Mycorrhizal Mycelial Biomass and Secretions. , 2017, , 413-440.		10
153	Mycorrhizal Interactions With Saprotrophs and Impact on Soil Carbon Storage. , 2017, , 441-460.		16
154	Ericoid Roots and Mycospheres Govern Plant-Specific Bacterial Communities in Boreal Forest Humus. Microbial Ecology, 2017, 73, 939-953.	1.4	45
155	Genome expansion and lineage-specific genetic innovations in the forest pathogenic fungi <i>Armillaria</i> . Nature Ecology and Evolution, 2017, 1, 1931-1941.	3.4	145
156	Fungal Genomes and Insights into the Evolution of the Kingdom. Microbiology Spectrum, 2017, 5, .	1.2	76
157	Root-associated fungal microbiota of nonmycorrhizal <i>Arabis alpina</i> and its contribution to plant phosphorus nutrition. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9403-E9412.	3.3	239
158	Potential Role of Beneficial Soil Microorganisms in Plant Tolerance to Abiotic Stress Factors. , 2017, , 191-207.		8
159	Invertebrate ichnofossils and rhizoliths associated with rhizomorphs from the Marília Formation (Echaporã Member), Bauru Group, Upper Cretaceous, Brazil. Journal of South American Earth Sciences, 2017, 80, 529-540.	0.6	6
160	Below-ground organic matter accumulation along a boreal forest fertility gradient relates to guild interaction within fungal communities. Ecology Letters, 2017, 20, 1546-1555.	3.0	136
161	A Highly Conserved Basidiomycete Peptide Synthetase Produces a Trimeric Hydroxamate Siderophore. Applied and Environmental Microbiology, 2017, 83, .	1.4	27
162	Why <i>Mycophoris</i> is not an orchid seedling, and why <i>Synaptomitrus</i> is not a fungal symbiont within this fossil. Botany, 2017, 95, 865-868.	0.5	3
163	Six Key Traits of Fungi: Their Evolutionary Origins and Genetic Bases. Microbiology Spectrum, 2017, 5, .	1.2	31
164	Fungal lifestyle reflected in serine protease repertoire. Scientific Reports, 2017, 7, 9147.	1.6	120
165	Microbial Expansins. Annual Review of Microbiology, 2017, 71, 479-497.	2.9	61
166	The Fungal Tree of Life: from Molecular Systematics to Genome-Scale Phylogenies. Microbiology Spectrum, 2017, 5, .	1.2	169
167	Chemical changes in organic matter after fungal colonization in a nitrogen fertilized and unfertilized Norway spruce forest. Plant and Soil, 2017, 419, 113-126.	1.8	11

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168	Pathogenic and Mutualistic Symbiotic Interactions in Angiosperm Trees. <i>Plant Genetics and Genomics: Crops and Models</i> , 2017, , 335-353.	0.3	0
169	Plant species richness and productivity determine the diversity of soil fungal guilds in temperate coniferous forest and bog habitats. <i>Molecular Ecology</i> , 2017, 26, 4846-4858.	2.0	80
170	RNA extraction from decaying wood for (meta)transcriptomic analyses. <i>Canadian Journal of Microbiology</i> , 2017, 63, 841-850.	0.8	3
171	Staining and microscopy of mycorrhizal fungal colonization in preserved ericoid plant roots. <i>Journal of Berry Research</i> , 2017, 7, 231-237.	0.7	6
173	Genomic Data Quality Impacts Automated Detection of Lateral Gene Transfer in Fungi. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 1301-1314.	0.8	20
174	Mineral surface-reactive metabolites secreted during fungal decomposition contribute to the formation of soil organic matter. <i>Environmental Microbiology</i> , 2017, 19, 5117-5129.	1.8	40
175	Making Use of Genomic Information to Explore the Biotechnological Potential of Medicinal Mushrooms. <i>Medicinal and Aromatic Plants of the World</i> , 2017, , 397-458.	0.1	7
176	Elevation, space and host plant species structure Ericaceae root-associated fungal communities in Papua New Guinea. <i>Fungal Ecology</i> , 2017, 30, 112-121.	0.7	5
177	Interactions of saprotrophic fungi with tree roots: can we observe the emergence of novel ectomycorrhizal fungi?. <i>New Phytologist</i> , 2017, 215, 511-513.	3.5	21
178	Interplay Between Innate Immunity and the Plant Microbiota. <i>Annual Review of Phytopathology</i> , 2017, 55, 565-589.	3.5	410
179	Distribution and diversity of enzymes for polysaccharide degradation in fungi. <i>Scientific Reports</i> , 2017, 7, 222.	1.6	96
180	Evolutionary history of versatile-lipases from Agaricales through reconstruction of ancestral structures. <i>BMC Genomics</i> , 2017, 18, 12.	1.2	9
181	Filamentous ascomycete genomes provide insights into Copia retrotransposon diversity in fungi. <i>BMC Genomics</i> , 2017, 18, 410.	1.2	9
182	Bulk isolation of basidiospores from wild mushrooms by electrostatic attraction with low risk of microbial contaminations. <i>AMB Express</i> , 2017, 7, 28.	1.4	36
183	Distributions of fungal melanin across species and soils. <i>Soil Biology and Biochemistry</i> , 2017, 113, 285-293.	4.2	48
184	Evolution of ectomycorrhizas as a driver of diversification and biogeographic patterns in the model mycorrhizal mushroom genus <i>Laccaria</i> . <i>New Phytologist</i> , 2017, 213, 1862-1873.	3.5	61
185	Genetic Bases of Fungal White Rot Wood Decay Predicted by Phylogenomic Analysis of Correlated Gene-Phenotype Evolution. <i>Molecular Biology and Evolution</i> , 2017, 34, 35-44.	3.5	65
186	Fungal and plant gene expression in the <i>Tulasnella calospora</i> – <i>Serapias vomeracea</i> symbiosis provides clues about nitrogen pathways in orchid mycorrhizas. <i>New Phytologist</i> , 2017, 213, 365-379.	3.5	125

#	ARTICLE	IF	CITATIONS
187	Fine-scale spatial distribution of orchid mycorrhizal fungi in the soil of host-rich grasslands. <i>New Phytologist</i> , 2017, 213, 1428-1439.	3.5	57
188	Modelling the influence of ectomycorrhizal decomposition on plant nutrition and soil carbon sequestration in boreal forest ecosystems. <i>New Phytologist</i> , 2017, 213, 1452-1465.	3.5	71
189	Emergence of plant and rhizospheric microbiota as stable interactomes. <i>Protoplasma</i> , 2017, 254, 617-626.	1.0	34
190	The Melin school: a personal memoir by Edward HacsKaylo. <i>Mycorrhiza</i> , 2017, 27, 75-80.	1.3	3
191	Comparative phylogenomics of symbiotic associations. <i>New Phytologist</i> , 2017, 213, 89-94.	3.5	40
192	Fungal Gene Cluster Diversity and Evolution. <i>Advances in Genetics</i> , 2017, 100, 141-178.	0.8	58
193	Fungal Phylogeny in the Age of Genomics: Insights Into Phylogenetic Inference From Genome-Scale Datasets. <i>Advances in Genetics</i> , 2017, 100, 49-72.	0.8	16
194	Lignin degradation: microorganisms, enzymes involved, genomes analysis and evolution. <i>FEMS Microbiology Reviews</i> , 2017, 41, 941-962.	3.9	584
195	Comparative Genomics of Pathogenic and Nonpathogenic Beetle-Vectored Fungi in the Genus <i>Geosmithia</i> . <i>Genome Biology and Evolution</i> , 2017, 9, 3312-3327.	1.1	18
196	Commonalities in Symbiotic Plant-Microbe Signalling. <i>Advances in Botanical Research</i> , 2017, , 187-221.	0.5	9
197	The Fungal Tree of Life: From Molecular Systematics to Genome-Scale Phylogenies. , 2017, , 1-34.		25
198	Six Key Traits of Fungi: Their Evolutionary Origins and Genetic Bases. , 2017, , 35-56.		10
199	Fungal Genomes and Insights into the Evolution of the Kingdom. , 0, , 619-633.		29
200	Lignocellulose Degrading Capabilities of in Creeping Bentgrass. <i>Itsrsj</i> , 2017, 13, 145.	0.1	2
201	Genome sequence of the ectophytic fungus <i>Ramichloridium luteum</i> reveals unique evolutionary adaptations to plant surface niche. <i>BMC Genomics</i> , 2017, 18, 729.	1.2	12
202	Ectomycorrhizal Fungal Communities at Different Soil Depths in a Forest Dominated by Endangered <i>Pseudotsuga japonica</i> . <i>Journal of the Japanese Forest Society</i> , 2017, 99, 195-201.	0.1	3
203	Microbial Taxa Distribution Is Associated with Ecological Trophic Cascades along an Elevation Gradient. <i>Frontiers in Microbiology</i> , 2017, 8, 2071.	1.5	144
204	The <i>SlZRT1</i> Gene Encodes a Plasma Membrane-Located ZIP (Zrt-, Irt-Like Protein) Transporter in the Ectomycorrhizal Fungus <i>Suillus luteus</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 2320.	1.5	24

#	ARTICLE	IF	CITATIONS
205	Comparative genomics of <i>Coniophora olivacea</i> reveals different patterns of genome expansion in Boletales. <i>BMC Genomics</i> , 2017, 18, 883.	1.2	20
206	Habitat- and soil-related drivers of the root-associated fungal community of <i>Quercus suber</i> in the Northern Moroccan forest. <i>PLoS ONE</i> , 2017, 12, e0187758.	1.1	21
207	Mycorrhiza-Assisted Phytoremediation. <i>Advances in Botanical Research</i> , 2017, 83, 127-188.	0.5	44
208	Phylogenetics and Phylogenomics of Rust Fungi. <i>Advances in Genetics</i> , 2017, 100, 267-307.	0.8	68
209	Regulatory networks underlying mycorrhizal development delineated by genome-wide expression profiling and functional analysis of the transcription factor repertoire of the plant symbiotic fungus <i>Laccaria bicolor</i> . <i>BMC Genomics</i> , 2017, 18, 737.	1.2	12
210	LSTrAP: efficiently combining RNA sequencing data into co-expression networks. <i>BMC Bioinformatics</i> , 2017, 18, 444.	1.2	35
211	An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. <i>Nature Communications</i> , 2018, 9, 756.	5.8	192
212	ChIP-ping the branches of the tree: functional genomics and the evolution of eukaryotic gene regulation. <i>Briefings in Functional Genomics</i> , 2018, 17, 116-137.	1.3	5
213	Ericoid plant species and <i>Pinus sylvestris</i> shape fungal communities in their roots and surrounding soil. <i>New Phytologist</i> , 2018, 218, 738-751.	3.5	37
214	Complex multicellularity in fungi: evolutionary convergence, single origin, or both?. <i>Biological Reviews</i> , 2018, 93, 1778-1794.	4.7	92
215	Microarthropods influence the composition of rhizospheric fungal communities by stimulating specific taxa. <i>Soil Biology and Biochemistry</i> , 2018, 122, 120-130.	4.2	15
216	Comparative genomics provides insights into the lifestyle and reveals functional heterogeneity of dark septate endophytic fungi. <i>Scientific Reports</i> , 2018, 8, 6321.	1.6	138
217	The root endophytes <i>Trametes versicolor</i> and <i>Piriformospora indica</i> increase grain yield and P content in wheat. <i>Plant and Soil</i> , 2018, 426, 339-348.	1.8	30
218	Improved prediction of fungal effector proteins from secretomes with EffectorP 2.0. <i>Molecular Plant Pathology</i> , 2018, 19, 2094-2110.	2.0	350
219	The ectomycorrhizal basidiomycete <i>Laccaria bicolor</i> releases a secreted Î²-1,4 endoglucanase that plays a key role in symbiosis development. <i>New Phytologist</i> , 2018, 220, 1309-1321.	3.5	49
220	Basidiomycete Genomics. <i>Fungal Genetics and Biology</i> , 2018, 112, 1.	0.9	0
221	Plant potassium nutrition in ectomycorrhizal symbiosis: properties and roles of the three fungal TOK potassium channels in <i>Hebeloma cylindrosporum</i> . <i>Environmental Microbiology</i> , 2018, 20, 1873-1887.	1.8	26
222	N-Acetylglucosaminidase activity, a functional trait of chitin degradation, is regulated differentially within two orders of ectomycorrhizal fungi: Boletales and Agaricales. <i>Mycorrhiza</i> , 2018, 28, 391-397.	1.3	14

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223	Anthropogenic N Deposition Alters the Composition of Expressed Class II Fungal Peroxidases. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	19
224	Analysis of basidiomycete pigments in situ by Raman spectroscopy. <i>Journal of Biophotonics</i> , 2018, 11, e201700369.	1.1	8
225	Association of ectomycorrhizal trees with high carbon to nitrogen ratio soils across temperate forests is driven by smaller nitrogen not larger carbon stocks. <i>Journal of Ecology</i> , 2018, 106, 524-535.	1.9	50
226	Russulaceae: a new genomic dataset to study ecosystem function and evolutionary diversification of ectomycorrhizal fungi with their tree associates. <i>New Phytologist</i> , 2018, 218, 54-65.	3.5	71
227	The Rust Fungus <i>Melampsora larici-populina</i> Expresses a Conserved Genetic Program and Distinct Sets of Secreted Protein Genes During Infection of Its Two Host Plants, Larch and Poplar. <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 695-706.	1.4	42
228	Does genotypic and species diversity of mycorrhizal plants and fungi affect ecosystem function?. <i>New Phytologist</i> , 2018, 220, 1122-1128.	3.5	37
229	Time to rethink fungal ecology? Fungal ecological niches are often prejudged. <i>New Phytologist</i> , 2018, 217, 968-972.	3.5	110
230	Ectomycorrhizal host specificity in a changing world: can legacy effects explain anomalous current associations?. <i>New Phytologist</i> , 2018, 220, 1273-1284.	3.5	34
231	Management regime is the most important factor influencing ectomycorrhizal species community in Norway spruce forests after windthrow. <i>Mycorrhiza</i> , 2018, 28, 221-233.	1.3	18
232	High intraspecific genome diversity in the model arbuscular mycorrhizal symbiont <i>Rhizophagus irregularis</i> . <i>New Phytologist</i> , 2018, 220, 1161-1171.	3.5	206
233	Know your enemy, embrace your friend: using omics to understand how plants respond differently to pathogenic and mutualistic microorganisms. <i>Plant Journal</i> , 2018, 93, 729-746.	2.8	129
234	Comparative genomics and transcriptomics depict ericoid mycorrhizal fungi as versatile saprotrophs and plant mutualists. <i>New Phytologist</i> , 2018, 217, 1213-1229.	3.5	185
235	Fenton reaction facilitates organic nitrogen acquisition by an ectomycorrhizal fungus. <i>New Phytologist</i> , 2018, 218, 335-343.	3.5	66
236	The genome and microbiome of a dikaryotic fungus ( <i>Inocybe terrigena</i> , Inocybaceae) revealed by metagenomics. <i>Environmental Microbiology Reports</i> , 2018, 10, 155-166.	1.0	17
237	Clearcutting alters decomposition processes and initiates complex restructuring of fungal communities in soil and tree roots. <i>ISME Journal</i> , 2018, 12, 692-703.	4.4	100
238	The fungus that came in from the cold: dry rot's pre-adapted ability to invade buildings. <i>ISME Journal</i> , 2018, 12, 791-801.	4.4	23
239	<i>Gamarada debralockiae</i> gen. nov. sp. nov. – the genome of the most widespread Australian ericoid mycorrhizal fungus. <i>Mycorrhiza</i> , 2018, 28, 379-389.	1.3	9
240	Unity in diversity: structural and functional insights into the ancient partnerships between plants and fungi. <i>New Phytologist</i> , 2018, 220, 996-1011.	3.5	84

#	ARTICLE	IF	CITATIONS
241	Comparative study of genome-wide plant biomass-degrading CAZymes in white rot, brown rot and soft rot fungi. <i>Mycology</i> , 2018, 9, 93-105.	2.0	116
242	The origin and evolution of mycorrhizal symbioses: from palaeomycology to phylogenomics. <i>New Phytologist</i> , 2018, 220, 1012-1030.	3.5	206
243	Cytochrome P450 diversity in the tree of life. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 141-154.	1.1	229
244	Ectomycorrhizal fungi and the enzymatic liberation of nitrogen from soil organic matter: why evolutionary history matters. <i>New Phytologist</i> , 2018, 217, 68-73.	3.5	117
245	A fungal endophyte defensive symbiosis affects plant-nematode interactions in cotton. <i>Plant and Soil</i> , 2018, 422, 251-266.	1.8	29
246	Focus on mycorrhizal symbioses. <i>Applied Soil Ecology</i> , 2018, 123, 299-304.	2.1	43
249	Limited Effects of Variable-Retention Harvesting on Fungal Communities Decomposing Fine Roots in Coastal Temperate Rainforests. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	13
250	Pezizomycetes genomes reveal the molecular basis of ectomycorrhizal truffle lifestyle. <i>Nature Ecology and Evolution</i> , 2018, 2, 1956-1965.	3.4	95
251	Cross-scale integration of mycorrhizal function. <i>New Phytologist</i> , 2018, 220, 941-946.	3.5	14
252	Host Phylogeny Is a Major Determinant of Fagaceae-Associated Ectomycorrhizal Fungal Community Assembly at a Regional Scale. <i>Frontiers in Microbiology</i> , 2018, 9, 2409.	1.5	36
253	Consequences of season of prescribed burning on two spring-flowering terrestrial orchids and their endophytic fungi. <i>Australian Journal of Botany</i> , 2018, 66, 298.	0.3	11
254	Oxidoreductases and Reactive Oxygen Species in Conversion of Lignocellulosic Biomass. <i>Microbiology and Molecular Biology Reviews</i> , 2018, 82, .	2.9	204
255	Manganese limitation as a mechanism for reduced decomposition in soils under atmospheric nitrogen deposition. <i>Soil Biology and Biochemistry</i> , 2018, 127, 252-263.	4.2	60
256	A systematic revision of the ectomycorrhizal genus <i>Laccaria</i> from Korea. <i>Mycologia</i> , 2018, 110, 948-961.	0.8	25
257	HcPT1.2 participates in Pi acquisition in <i>Hebeloma cylindrosporum</i> external hyphae of ectomycorrhizas under high and low phosphate conditions. <i>Plant Signaling and Behavior</i> , 2018, 13, e1525997.	1.2	11
258	Role of Fungi in Wood Decay. , 2018, , .		11
259	Stable isotope analyses reveal previously unknown trophic mode diversity in the Hymenochaetales. <i>American Journal of Botany</i> , 2018, 105, 1869-1887.	0.8	19
260	Genomic overview of closely related fungi with different <i>Protea</i> host ranges. <i>Fungal Biology</i> , 2018, 122, 1201-1214.	1.1	1

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261	The Role of Plant Transporters in Mycorrhizal Symbioses. <i>Advances in Botanical Research</i> , 2018, , 303-342.	0.5	9
262	Reindeer grazing alter soil fungal community structure and litter decomposition related enzyme activities in boreal coniferous forests in Finnish Lapland. <i>Applied Soil Ecology</i> , 2018, 132, 74-82.	2.1	20
263	Genome sequence of the cauliflower mushroom <i>Sparassis crispa</i> (Hanabiratake) and its association with beneficial usage. <i>Scientific Reports</i> , 2018, 8, 16053.	1.6	32
264	Recent insights into lytic polysaccharide monoxygenases (LPMOs). <i>Biochemical Society Transactions</i> , 2018, 46, 1431-1447.	1.6	82
265	The inseparability of sampling and time and its influence on attempts to unify the molecular and fossil records. <i>Paleobiology</i> , 2018, 44, 561-574.	1.3	21
266	<i>Agrobacterium</i> -mediated transformation of the ascomycete mushroom <i>Morchella importuna</i> using polyubiquitin and glyceraldehyde-3-phosphate dehydrogenase promoter-based binary vectors. <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 148.	1.7	10
267	Rapid Divergence of Genome Architectures Following the Origin of an Ectomycorrhizal Symbiosis in the Genus <i>Amanita</i> . <i>Molecular Biology and Evolution</i> , 2018, 35, 2786-2804.	3.5	28
269	Oak extractive-induced stress reveals the involvement of new enzymes in the early detoxification response of <i>Phanerochaete chrysosporium</i> . <i>Environmental Microbiology</i> , 2018, 20, 3890-3901.	1.8	10
270	The future has roots in the past: the ideas and scientists that shaped mycorrhizal research. <i>New Phytologist</i> , 2018, 220, 982-995.	3.5	53
271	GH43 endo-arabinanase from <i>Bacillus licheniformis</i> : Structure, activity and unexpected synergistic effect on cellulose enzymatic hydrolysis. <i>International Journal of Biological Macromolecules</i> , 2018, 117, 7-16.	3.6	10
272	Fungal guilds are evenly distributed along a vertical spruce forest soil profile while individual fungi show pronounced niche partitioning. <i>Mycological Progress</i> , 2018, 17, 925-939.	0.5	23
273	Bacterial biofilm formation on the hyphae of ectomycorrhizal fungi: a widespread ability under controls?. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	43
274	Ericoid mycorrhizal fungi and their genomes: another side to the mycorrhizal symbiosis?. <i>New Phytologist</i> , 2018, 220, 1141-1147.	3.5	56
275	Cell remodeling and subtilase gene expression in the actinorhizal plant <i>Discaria trinervis</i> highlight host orchestration of intercellular <i>Frankia</i> colonization. <i>New Phytologist</i> , 2018, 219, 1018-1030.	3.5	29
276	Mycorrhizal fungi affect orchid distribution and population dynamics. <i>New Phytologist</i> , 2018, 219, 1207-1215.	3.5	109
277	The Genome Sequences of 90 Mushrooms. <i>Scientific Reports</i> , 2018, 8, 9982.	1.6	73
278	The <i>Hebeloma cylindrosporum</i> HcPT2 Pi transporter plays a key role in ectomycorrhizal symbiosis. <i>New Phytologist</i> , 2018, 220, 1185-1199.	3.5	35
279	Draft Genome Sequence of <i>Tuber borchii</i> Vittad., a Whitish Edible Truffle. <i>Genome Announcements</i> , 2018, 6, .	0.8	20

#	ARTICLE	IF	CITATIONS
280	Studies on diversity of higher fungi in Yunnan, southwestern China: A review. <i>Plant Diversity</i> , 2018, 40, 165-171.	1.8	26
281	Evolutionary dynamics of host specialization in wood-decay fungi. <i>BMC Evolutionary Biology</i> , 2018, 18, 119.	3.2	104
282	The genome of <i>Rhizophagus clarus</i> HR1 reveals a common genetic basis for auxotrophy among arbuscular mycorrhizal fungi. <i>BMC Genomics</i> , 2018, 19, 465.	1.2	91
283	The Hydrophobin-Like OmSSP1 May Be an Effector in the Ericoid Mycorrhizal Symbiosis. <i>Frontiers in Plant Science</i> , 2018, 9, 546.	1.7	20
284	Fossils of Arbuscular Mycorrhizal Fungi Give Insights Into the History of a Successful Partnership With Plants. , 2018, , 461-480.		4
285	Secretome Analysis from the Ectomycorrhizal Ascomycete <i>Cenococcum geophilum</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 141.	1.5	24
286	Recent Insights on Biological and Ecological Aspects of Ectomycorrhizal Fungi and Their Interactions. <i>Frontiers in Microbiology</i> , 2018, 9, 216.	1.5	29
287	Two P1B-1-ATPases of <i>Amanita strobiliformis</i> With Distinct Properties in Cu/Ag Transport. <i>Frontiers in Microbiology</i> , 2018, 9, 747.	1.5	12
288	Diversity and Enzyme Activity of Ectomycorrhizal Fungal Communities Following Nitrogen Fertilization in an Urban-Adjacent Pine Plantation. <i>Forests</i> , 2018, 9, 99.	0.9	21
289	Simulated nitrogen deposition favors stress-tolerant fungi with low potential for decomposition. <i>Soil Biology and Biochemistry</i> , 2018, 125, 75-85.	4.2	43
290	Trees, fungi and bacteria: tripartite metatranscriptomics of a root microbiome responding to soil contamination. <i>Microbiome</i> , 2018, 6, 53.	4.9	88
291	Distribution and Taxonomic Variation in the <i>Amanita</i> Cyclic Peptide Toxins. , 2018, , 59-91.		0
292	Biosynthesis of the <i>Amanita</i> Cyclic Peptide Toxins. , 2018, , 93-130.		1
293	<i>Trametes versicolor</i> glutathione transferase Xi 3, a dual Cys-GST with catalytic specificities of both Xi and Omega classes. <i>FEBS Letters</i> , 2018, 592, 3163-3172.	1.3	7
294	The Cyclic Peptide Toxins of <i>Amanita</i> and Other Poisonous Mushrooms. , 2018, , .		20
295	Contrasting effects of ectomycorrhizal fungi on early and late stage decomposition in a boreal forest. <i>ISME Journal</i> , 2018, 12, 2187-2197.	4.4	112
296	Comparative transcriptome analysis of dikaryotic mycelia and mature fruiting bodies in the edible mushroom <i>Lentinula edodes</i> . <i>Scientific Reports</i> , 2018, 8, 8983.	1.6	37
297	Nitrogen and phosphate metabolism in ectomycorrhizas. <i>New Phytologist</i> , 2018, 220, 1047-1058.	3.5	84

#	ARTICLE	IF	CITATIONS
298	Genome Sequence of the Plant Growth Promoting Fungus <i>Serendipita vermifera</i> subsp. <i>bescii</i> : The First Native Strain from North America. <i>Phytobiomes Journal</i> , 2018, 2, 62-63.	1.4	20
299	Restriction of plant roots in boreal forest organic soils affects the microbial community but does not change the dominance from ectomycorrhizal to saprotrophic fungi. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	11
300	Truffles and Morels: Two Different Evolutionary Strategies of Fungal-Plant Interactions in the Pezizales. , 2019, , 69-93.		3
301	Influence of Xenobiotics on the Mycorrhizosphere. , 2019, , 111-137.		3
302	Mediation of plant-mycorrhizal interaction by a lectin receptor-like kinase. <i>Nature Plants</i> , 2019, 5, 676-680.	4.7	42
303	Arbuscular mycorrhiza and soil organic nitrogen: network of players and interactions. <i>Chemical and Biological Technologies in Agriculture</i> , 2019, 6, .	1.9	67
304	The lichen symbiosis re-viewed through the genomes of <i>Cladonia grayi</i> and its algal partner <i>Asterochloris glomerata</i> . <i>BMC Genomics</i> , 2019, 20, 605.	1.2	98
305	Phosphorus Transport in Mycorrhiza: How Far Are We?. <i>Trends in Plant Science</i> , 2019, 24, 794-801.	4.3	64
306	European mushroom assemblages are darker in cold climates. <i>Nature Communications</i> , 2019, 10, 2890.	5.8	34
307	Mycorrhizal types differ in ecophysiology and alter plant nutrition and soil processes. <i>Biological Reviews</i> , 2019, 94, 1857-1880.	4.7	178
308	<i>Laccaria bicolor</i> MiSSP8 is a small-secreted protein decisive for the establishment of the ectomycorrhizal symbiosis. <i>Environmental Microbiology</i> , 2019, 21, 3765-3779.	1.8	45
309	A meta-analysis of global fungal distribution reveals climate-driven patterns. <i>Nature Communications</i> , 2019, 10, 5142.	5.8	232
310	Mycorrhizal Fungi as Mediators of Soil Organic Matter Dynamics. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2019, 50, 237-259.	3.8	233
311	SLZRT2 Encodes a ZIP Family Zn Transporter With Dual Localization in the Ectomycorrhizal Fungus <i>Suillus luteus</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 2251.	1.5	14
313	Global imprint of mycorrhizal fungi on whole-plant nutrient economics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23163-23168.	3.3	169
314	Data on the genome analysis of the wild edible mushroom, <i>Russula griseocarnosa</i> . <i>Data in Brief</i> , 2019, 25, 104295.	0.5	0
315	fagin: synteny-based phylostratigraphy and finer classification of young genes. <i>BMC Bioinformatics</i> , 2019, 20, 440.	1.2	16
316	Genome expansion by allopolyploidization in the fungal strain <i>Coniochaeta</i> 2T2.1 and its exceptional lignocellulolytic machinery. <i>Biotechnology for Biofuels</i> , 2019, 12, 229.	6.2	12

#	ARTICLE	IF	CITATIONS
317	Defence priming in <i>Arabidopsis</i> – a Meta-Analysis. <i>Scientific Reports</i> , 2019, 9, 13309.	1.6	46
318	FGB1 and WSC3 are <i>in planta</i> -induced $\beta$ -glucan-binding fungal lectins with different functions. <i>New Phytologist</i> , 2019, 222, 1493-1506.	3.5	43
319	Transcriptome Analysis Provides Novel Insights into the Capacity of the Ectomycorrhizal Fungus <i>Amanita pantherina</i> To Weather K-Containing Feldspar and Apatite. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	16
320	Genome description of <i>Phlebia radiata</i> 79 with comparative genomics analysis on lignocellulose decomposition machinery of phlebioid fungi. <i>BMC Genomics</i> , 2019, 20, 430.	1.2	16
321	Distribution, Characteristics, and Regulatory Potential of Long Noncoding RNAs in Brown-Rot Fungi. <i>International Journal of Genomics</i> , 2019, 2019, 1-12.	0.8	8
322	Plant intraspecific variation modulates nutrient cycling through its below ground rhizospheric microbiome. <i>Journal of Ecology</i> , 2019, 107, 1594-1605.	1.9	71
323	Complete Genome Sequence of the Coralopyronin A-Producing Myxobacterium <i>Coralococcus coraloides</i> B035. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	3
324	Resource-ratio theory predicts mycorrhizal control of litter decomposition. <i>New Phytologist</i> , 2019, 223, 1595-1606.	3.5	56
325	The inconspicuous gatekeeper: endophytic <i>Serendipita vermifera</i> acts as extended plant protection barrier in the rhizosphere. <i>New Phytologist</i> , 2019, 224, 886-901.	3.5	52
326	Genome sequence analysis of the fairy ring-forming fungus <i>Lepista sordida</i> and gene candidates for interaction with plants. <i>Scientific Reports</i> , 2019, 9, 5888.	1.6	15
327	FGMP: assessing fungal genome completeness. <i>BMC Bioinformatics</i> , 2019, 20, 184.	1.2	25
328	Mythicomycetaceae Fam. Nov. (Agaricineae , Agaricales) for Accommodating the Genera <i>Mythicomycetes</i> and <i>Stagnicola</i> , and <i>Simocybe Parvispora</i> Reconsidered. <i>Fungal Systematics and Evolution</i> , 2019, 3, 225-240.	0.9	10
329	Fungal evolution: major ecological adaptations and evolutionary transitions. <i>Biological Reviews</i> , 2019, 94, 1443-1476.	4.7	181
330	Broad-specificity GH131 $\beta$ -glucanases are a hallmark of fungi and oomycetes that colonize plants. <i>Environmental Microbiology</i> , 2019, 21, 2724-2739.	1.8	18
331	Effect of Organic Carbon and Nitrogen on the Interactions of <i>Morchella</i> spp. and Bacteria Dispersing on Their Mycelium. <i>Frontiers in Microbiology</i> , 2019, 10, 124.	1.5	14
332	Different Degrees of Niche Differentiation for Bacteria, Fungi, and Myxomycetes Within an Elevational Transect in the German Alps. <i>Microbial Ecology</i> , 2019, 78, 764-780.	1.4	16
333	Transcriptomic atlas of mushroom development reveals conserved genes behind complex multicellularity in fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7409-7418.	3.3	115
334	Differential gene expression associated with fungal trophic shifts along the senescence gradient of the moss <i>Dicranum scoparium</i> . <i>Environmental Microbiology</i> , 2019, 21, 2273-2289.	1.8	11

#	ARTICLE	IF	CITATIONS
335	Molecular Signalling During the Ectomycorrhizal Symbiosis. , 2019, , 95-109.		3
336	Megaphylogeny resolves global patterns of mushroom evolution. <i>Nature Ecology and Evolution</i> , 2019, 3, 668-678.	3.4	187
337	Influence of Ammonium on Formation of Mineral-Associated Organic Carbon by an Ectomycorrhizal Fungus. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	6
338	Genome and secretome of <i>Chondrostereum purpureum</i> correspond to saprotrophic and phytopathogenic life styles. <i>PLoS ONE</i> , 2019, 14, e0212769.	1.1	11
339	Revisiting the "direct mineral cycling" hypothesis: arbuscular mycorrhizal fungi colonize leaf litter, but why?. <i>ISME Journal</i> , 2019, 13, 1891-1898.	4.4	79
340	Microscopic Techniques Coupled to Molecular and Genetic Approaches to Highlight Cell-Type Specific Differences in Mycorrhizal Symbiosis. <i>Rhizosphere Biology</i> , 2019, , 197-225.	0.4	0
341	Comparative genomics of 40 edible and medicinal mushrooms provide an insight into the evolution of lignocellulose decomposition mechanisms. <i>3 Biotech</i> , 2019, 9, 157.	1.1	14
342	Black root rot: a long known but little understood disease. <i>Plant Pathology</i> , 2019, 68, 834-842.	1.2	12
343	Genome of lethal <i>Lepiota venenata</i> and insights into the evolution of toxin-biosynthetic genes. <i>BMC Genomics</i> , 2019, 20, 198.	1.2	20
345	Plant selection initiates alternative successional trajectories in the soil microbial community after disturbance. <i>Ecological Monographs</i> , 2019, 89, e01367.	2.4	31
347	Flowering plant immune repertoires expand under mycorrhizal symbiosis. <i>Plant Direct</i> , 2019, 3, e00125.	0.8	2
348	A plant perspective on nitrogen cycling in the rhizosphere. <i>Functional Ecology</i> , 2019, 33, 540-552.	1.7	292
349	Dead or Alive; or Does It Really Matter? Level of Congruency Between Trophic Modes in Total and Active Fungal Communities in High Arctic Soil. <i>Frontiers in Microbiology</i> , 2018, 9, 3243.	1.5	23
350	Molecular fungal community and its decomposition activity in sapwood and heartwood of 13 temperate European tree species. <i>PLoS ONE</i> , 2019, 14, e0212120.	1.1	55
351	Warming alters fungal communities and litter chemistry with implications for soil carbon stocks. <i>Soil Biology and Biochemistry</i> , 2019, 132, 120-130.	4.2	36
352	The <i>Cedrus</i> -associated truffle <i>Trappeindia himalayensis</i> is a morphologically unique and phylogenetically divergent species of <i>Rhizopogon</i> . <i>Mycologia</i> , 2019, 111, 225-234.	0.8	3
353	The Ectomycorrhizal Fungus <i>Laccaria bicolor</i> Produces Lipochitooligosaccharides and Uses the Common Symbiosis Pathway to Colonize <i>Populus</i> Roots. <i>Plant Cell</i> , 2019, 31, 2386-2410.	3.1	73
354	Draft Genome Sequence of the Ectomycorrhizal Ascomycete <i>Sphaerospora brunnea</i> . <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	3

#	ARTICLE	IF	CITATIONS
355	Trichoderma reesei Dehydrogenase, a Pyrroloquinoline Quinone-Dependent Member of Auxiliary Activity Family 12 of the Carbohydrate-Active Enzymes Database: Functional and Structural Characterization. Applied and Environmental Microbiology, 2019, 85, .	1.4	13
356	In silico definition of new ligninolytic peroxidase sub-classes in fungi and putative relation to fungal life style. Scientific Reports, 2019, 9, 20373.	1.6	13
357	Notes, outline and divergence times of Basidiomycota. Fungal Diversity, 2019, 99, 105-367.	4.7	256
358	Genome-based estimates of fungal rDNA copy number variation across phylogenetic scales and ecological lifestyles. Molecular Ecology, 2019, 28, 721-730.	2.0	163
359	Out of western North America: Evolution of the Rhizopogon-Pseudotsuga symbiosis inferred by genome-scale sequence typing. Fungal Ecology, 2019, 39, 12-25.	0.7	14
360	Structure-guided design combined with evolutionary diversity led to the discovery of the xylose-releasing exo-xylanase activity in the glycoside hydrolase family 43. Biotechnology and Bioengineering, 2019, 116, 734-744.	1.7	15
361	Atmospheric nitrogen deposition impacts on the structure and function of forest mycorrhizal communities: A review. Environmental Pollution, 2019, 246, 148-162.	3.7	147
362	Long-Read Annotation: Automated Eukaryotic Genome Annotation Based on Long-Read cDNA Sequencing. Plant Physiology, 2019, 179, 38-54.	2.3	45
363	Necrotrophic Exploitation and Subversion of Plant Defense: A Lifestyle or Just a Phase, and Implications in Breeding Resistance. Phytopathology, 2019, 109, 332-346.	1.1	35
364	Exploring the role of ectomycorrhizal fungi in soil carbon dynamics. New Phytologist, 2019, 223, 33-39.	3.5	147
365	Comparative genomics of <i>Rhizophagus irregularis</i> , <i>R. Âcerebriforme</i> , <i>R. Âdiaphanus</i> and <i>Gigaspora rosea</i> highlights specific genetic features in Glomeromycotina. New Phytologist, 2019, 222, 1584-1598.	3.5	133
366	Genome-scale phylogenetics reveals a monophyletic Zoopagales (Zoopagomycota, Fungi). Molecular Phylogenetics and Evolution, 2019, 133, 152-163.	1.2	26
367	First evidences that the ectomycorrhizal fungus <i>Paxillus involutus</i> mobilizes nitrogen and carbon from saprotrophic fungus necromass. Environmental Microbiology, 2019, 21, 197-208.	1.8	20
368	Genome and evolution of the arbuscular mycorrhizal fungus <i>Diversispora epigaea</i> (formerly) <i>Tj ETQq1</i>	3.5	88
369	The soil organic matter decomposition mechanisms in ectomycorrhizal fungi are tuned for liberating soil organic nitrogen. ISME Journal, 2019, 13, 977-988.	4.4	128
370	The ectomycorrhizal contribution to tree nutrition. Advances in Botanical Research, 2019, , 77-126.	0.5	44
371	Phylogenomics of Endogonaceae and evolution of mycorrhizas within Mucoromycota. New Phytologist, 2019, 222, 511-525.	3.5	81
372	Pre-Quaternary wood decay â€ caught in the actâ€ by fire â€ examples of plant-microbe-interactions preserved in charcoal from clastic sediments. Historical Biology, 2019, 31, 952-961.	0.7	15

#	ARTICLE	IF	CITATIONS
373	Model Choice, Missing Data, and Taxon Sampling Impact Phylogenomic Inference of Deep Basidiomycota Relationships. <i>Systematic Biology</i> , 2020, 69, 17-37.	2.7	34
374	Whole genome sequencing and genome annotation of the wild edible mushroom, <i>Russula griseocarnosa</i> . <i>Genomics</i> , 2020, 112, 603-614.	1.3	30
375	Micronutrient transport in mycorrhizal symbiosis; zinc steals the show. <i>Fungal Biology Reviews</i> , 2020, 34, 1-9.	1.9	26
376	Decelerated carbon cycling by ectomycorrhizal fungi is controlled by substrate quality and community composition. <i>New Phytologist</i> , 2020, 226, 569-582.	3.5	53
377	Dualâ€mmycorrhizal plants: their ecology and relevance. <i>New Phytologist</i> , 2020, 225, 1835-1851.	3.5	119
378	The Genome Sequence of Five Genotypes of <i>Fusarium oxysporum</i> f. sp. <i>vasinfectum</i> : A Resource for Studies on Fusarium Wilt of Cotton. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 138-140.	1.4	14
379	A 14-bp stretch plays a critical role in regulating gene expression from $\beta$ 21-tubulin promoters of basidiomycetes. <i>Current Genetics</i> , 2020, 66, 217-228.	0.8	9
380	Phylogenetic signature of fungal response to long-term chemical pollution. <i>Soil Biology and Biochemistry</i> , 2020, 140, 107644.	4.2	18
381	The complete mitochondrial genomes of two model ectomycorrhizal fungi ( <i>Laccaria</i> ): features, intron dynamics and phylogenetic implications. <i>International Journal of Biological Macromolecules</i> , 2020, 145, 974-984.	3.6	52
383	A fungal family of lytic polysaccharide monooxygenase-like copper proteins. <i>Nature Chemical Biology</i> , 2020, 16, 345-350.	3.9	63
384	Soil nitrogen cycling is determined by the competition between mycorrhiza and ammoniaâ€oxidizing prokaryotes. <i>Ecology</i> , 2020, 101, e02963.	1.5	26
385	No support for the emergence of lichens prior to the evolution of vascular plants. <i>Geobiology</i> , 2020, 18, 3-13.	1.1	48
386	Two ectomycorrhizal truffles, <i>Tuber melanosporum</i> and <i>T. aestivum</i> , endophytically colonise roots of nonâ€ectomycorrhizal plants in natural environments. <i>New Phytologist</i> , 2020, 225, 2542-2556.	3.5	50
387	An ectomycorrhizal fungus alters sensitivity to jasmonate, salicylate, gibberellin, and ethylene in host roots. <i>Plant, Cell and Environment</i> , 2020, 43, 1047-1068.	2.8	30
388	Fungal ecological strategies reflected in gene transcription â€a case study of two litter decomposers. <i>Environmental Microbiology</i> , 2020, 22, 1089-1103.	1.8	32
389	Fungal functional ecology: bringing a traitâ€based approach to plantâ€associated fungi. <i>Biological Reviews</i> , 2020, 95, 409-433.	4.7	171
390	The virome from a collection of endomycorrhizal fungi reveals new viral taxa with unprecedented genome organization. <i>Virus Evolution</i> , 2020, 6, veaa076.	2.2	81
391	Large-scale genome sequencing of mycorrhizal fungi provides insights into the early evolution of symbiotic traits. <i>Nature Communications</i> , 2020, 11, 5125.	5.8	258

#	ARTICLE	IF	CITATIONS
392	Unique and common traits in mycorrhizal symbioses. <i>Nature Reviews Microbiology</i> , 2020, 18, 649-660.	13.6	277
393	Toward a Fully Resolved Fungal Tree of Life. <i>Annual Review of Microbiology</i> , 2020, 74, 291-313.	2.9	156
394	Metabolomic adjustments in the orchid mycorrhizal fungus <i>Tulasnella calospora</i> during symbiosis with <i>Serapias vomeracea</i> . <i>New Phytologist</i> , 2020, 228, 1939-1952.	3.5	21
395	Phylogeny and character evolution in the <i>Dacrymycetes</i> , and systematics of <i>Unilacrymaceae</i> and <i>Dacryonaemataceae</i> fam. nov.. <i>Persoonia: Molecular Phylogeny and Evolution of Fungi</i> , 2020, 44, 161-205.	1.6	18
396	Genome sequence of <i>Acremonium strictum</i> AAI6 strain isolated from the Cerrado biome in Brazil and CAZymes expression in thermotolerant industrial yeast for ethanol production. <i>Process Biochemistry</i> , 2020, 98, 139-150.	1.8	5
397	Evaluation of genome size and quantitative features of the dolipore septum as taxonomic predictors for the <i>Serendipita williamsii</i> ™ species complex. <i>Fungal Biology</i> , 2020, 124, 781-800.	1.1	3
398	Ectomycorrhizal Plant-Fungal Co-invasions as Natural Experiments for Connecting Plant and Fungal Traits to Their Ecosystem Consequences. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	20
399	Fungal lytic polysaccharide monooxygenases in biofuel production from agricultural waste. , 2020, , 161-180.		1
400	Allopatric instead of parapatric divergence in an ectomycorrhizal fungus ( <i>Laccaria</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 422 Jd (trichod	0.7	2
401	Resolving the mycorrhizal status of important northern hemisphere trees. <i>Plant and Soil</i> , 2020, 454, 3-34.	1.8	48
402	Phylogenomic Analyses of Non-Dikarya Fungi Supports Horizontal Gene Transfer Driving Diversification of Secondary Metabolism in the Amphibian Gastrointestinal Symbiont, <i>Basidiobolus</i> . <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 3417-3433.	0.8	27
403	Diverged and Active Partitiviruses in Lichen. <i>Frontiers in Microbiology</i> , 2020, 11, 561344.	1.5	9
404	Fungal Community, Not Substrate Quality, Drives Soil Microbial Function in Northeastern U.S. Temperate Forests. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	6
405	Fungal heavy metal adaptation through single nucleotide polymorphisms and copy number variation. <i>Molecular Ecology</i> , 2020, 29, 4157-4169.	2.0	24
406	Soil P reduces mycorrhizal colonization while favors fungal pathogens: observational and experimental evidence in <i>Bipinnula</i> (Orchidaceae). <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	14
407	Symbiotic and Asymbiotic Germination of <i>Dendrobium officinale</i> (Orchidaceae) Respond Differently to Exogenous Gibberellins. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6104.	1.8	15
408	New insights into HcPTR2A and HcPTR2B, two high-affinity peptide transporters from the ectomycorrhizal model fungus <i>Hebeloma cylindrosporum</i> . <i>Mycorrhiza</i> , 2020, 30, 735-747.	1.3	2
409	De Novo Gene Birth, Horizontal Gene Transfer, and Gene Duplication as Sources of New Gene Families Associated with the Origin of Symbiosis in <i>Amanita</i> . <i>Genome Biology and Evolution</i> , 2020, 12, 2168-2182.	1.1	5

#	ARTICLE	IF	CITATIONS
410	The First Mitochondrial Genome for Geastrales ( <i>Sphaerobolus stellatus</i> ) Reveals Intron Dynamics and Large-Scale Gene Rearrangements of Basidiomycota. <i>Frontiers in Microbiology</i> , 2020, 11, 1970.	1.5	20
411	Local Responses and Systemic Induced Resistance Mediated by Ectomycorrhizal Fungi. <i>Frontiers in Plant Science</i> , 2020, 11, 590063.	1.7	43
412	<i>Metarhizium</i> : jack of all trades, master of many. <i>Open Biology</i> , 2020, 10, 200307.	1.5	87
413	Comparative Genomic Analysis of <i>Dactylonectria torresensis</i> Strains from Grapevine, Soil and Weed Highlights Potential Mechanisms in Pathogenicity and Endophytic Lifestyle. <i>Journal of Fungi (Basel)</i> , 2020, 6, 1078.	1.7	14
414	Mutualistic Fungal Endophyte <i>Colletotrichum tofieldiae</i> Ct0861 Colonizes and Increases Growth and Yield of Maize and Tomato Plants. <i>Agronomy</i> , 2020, 10, 1493.	1.3	12
415	The Dark Side of Orchid Symbiosis: Can <i>Tulasnella calospora</i> Decompose Host Tissues?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3139.	1.8	22
416	Enzymatic removal of dags from livestock: an agricultural application of enzyme technology. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 5739-5748.	1.7	3
417	The phoma-like dilemma. <i>Studies in Mycology</i> , 2020, 96, 309-396.	4.5	87
418	Oak displays common local but specific distant gene regulation responses to different mycorrhizal fungi. <i>BMC Genomics</i> , 2020, 21, 399.	1.2	14
419	Phylogenetic origins and family classification of typhuloid fungi, with emphasis on <i>Ceratellopsis</i> , <i>Macrotyphula</i> and <i>Typhula</i> (Basidiomycota). <i>Studies in Mycology</i> , 2020, 96, 155-184.	4.5	17
420	Genome Assembly and Pathway Analysis of Edible Mushroom <i>Agrocybe cylindracea</i> . <i>Genomics, Proteomics and Bioinformatics</i> , 2020, 18, 341-351.	3.0	18
421	Dynamics and resilience of soil mycobiome under multiple organic and inorganic pulse disturbances. <i>Science of the Total Environment</i> , 2020, 733, 139173.	3.9	17
422	Draft genomic sequence of <i>Armillaria gallica</i> 012m: insights into its symbiotic relationship with <i>Gastrodia elata</i> . <i>Brazilian Journal of Microbiology</i> , 2020, 51, 1539-1552.	0.8	21
423	Distinct Assembly Processes and Microbial Communities Constrain Soil Organic Carbon Formation. <i>One Earth</i> , 2020, 2, 349-360.	3.6	74
424	Mycorrhizal effector PaMiSSP10b alters polyamine biosynthesis in <i>Eucalyptus</i> root cells and promotes root colonization. <i>New Phytologist</i> , 2020, 228, 712-727.	3.5	24
425	Comparative Mitogenome Analysis Reveals Mitochondrial Genome Differentiation in Ectomycorrhizal and Asymbiotic <i>Amanita</i> Species. <i>Frontiers in Microbiology</i> , 2020, 11, 1382.	1.5	42
426	Changes in plant function and root mycobiome caused by flood and drought in a riparian tree. <i>Tree Physiology</i> , 2020, 40, 886-903.	1.4	16
427	Microbiomes of soils. , 2020, , 29-54.		2

#	ARTICLE	IF	CITATIONS
428	Unmatched Level of Molecular Convergence among Deeply Divergent Complex Multicellular Fungi. <i>Molecular Biology and Evolution</i> , 2020, 37, 2228-2240.	3.5	23
429	Modulation of Plant and Fungal Gene Expression Upon Cd Exposure and Symbiosis in Ericoid Mycorrhizal <i>Vaccinium myrtillus</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 341.	1.5	17
430	Ibotenic Acid Biosynthesis in the Fly Agaric Is Initiated by Glutamate Hydroxylation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12432-12435.	7.2	30
431	<i>In vitro</i> evidence of root colonization suggests ecological versatility in the genus <i>Mycena</i> . <i>New Phytologist</i> , 2020, 227, 601-612.	3.5	41
432	Horizontal Gene Transfer and Endophytes: An Implication for the Acquisition of Novel Traits. <i>Plants</i> , 2020, 9, 305.	1.6	55
433	Insights into the mechanism of cyanobacteria removal by the algicidal fungi <i>Bjerkandera adusta</i> and <i>Trametes versicolor</i> . <i>MicrobiologyOpen</i> , 2020, 9, e1042.	1.2	12
434	Diversity and community structure of ericoid mycorrhizal fungi in European bogs and heathlands across a gradient of nitrogen deposition. <i>New Phytologist</i> , 2020, 228, 1640-1651.	3.5	26
435	Venturiales. <i>Studies in Mycology</i> , 2020, 96, 185-308.	4.5	23
436	Comparative mitogenome analysis of two ectomycorrhizal fungi ( <i>Paxillus</i> ) reveals gene rearrangement, intron dynamics, and phylogeny of basidiomycetes. <i>IMA Fungus</i> , 2020, 11, 12.	1.7	36
437	Explorative Meta-Analysis of 377 Extant Fungal Genomes Predicted a Total Mycobiome Functionality of 42.4 Million KEGG Functions. <i>Frontiers in Microbiology</i> , 2020, 11, 143.	1.5	8
438	The small secreted effector protein MiSSP7.6 of <i>Laccaria bicolor</i> is required for the establishment of ectomycorrhizal symbiosis. <i>Environmental Microbiology</i> , 2020, 22, 1435-1446.	1.8	37
439	From field sampling to pneumatic bioreactor mycelia production of the ectomycorrhizal mushroom <i>Laccaria trichodermorphora</i> . <i>Fungal Biology</i> , 2020, 124, 205-218.	1.1	2
440	How mycorrhizal associations drive plant population and community biology. <i>Science</i> , 2020, 367, .	6.0	453
441	Comparative genomics applied to <i>Mucor</i> species with different lifestyles. <i>BMC Genomics</i> , 2020, 21, 135.	1.2	23
442	Orchids and their mycorrhizal fungi: an insufficiently explored relationship. <i>Mycorrhiza</i> , 2020, 30, 5-22.	1.3	57
443	Positive response of soil microbes to long-term nitrogen input in spruce forest: Results from a whole-catchment N-addition experiment. <i>Soil Biology and Biochemistry</i> , 2020, 143, 107732.	4.2	35
444	Digging Deeper: In Search of the Mechanisms of Carbon and Nitrogen Exchange in Ectomycorrhizal Symbioses. <i>Frontiers in Plant Science</i> , 2019, 10, 1658.	1.7	46
445	Ibotenic Acid Biosynthesis in the Fly Agaric Is Initiated by Glutamate Hydroxylation. <i>Angewandte Chemie</i> , 2020, 132, 12532-12535.	1.6	7

#	ARTICLE	IF	CITATIONS
446	A comprehensive framework for the production of mycelium-based lignocellulosic composites. <i>Science of the Total Environment</i> , 2020, 725, 138431.	3.9	116
447	Ectomycorrhizal Fungi: Participation in Nutrient Turnover and Community Assembly Pattern in Forest Ecosystems. <i>Forests</i> , 2020, 11, 453.	0.9	27
448	Nitrogen acquisition from mineral-associated proteins by an ectomycorrhizal fungus. <i>New Phytologist</i> , 2020, 228, 697-711.	3.5	27
449	Altered rhizoctonia assemblages in grasslands on ex-arable land support germination of mycorrhizal generalist, not specialist orchids. <i>New Phytologist</i> , 2020, 227, 1200-1212.	3.5	33
450	Reviews and syntheses: Biological weathering and its consequences at different spatial levels – from nanoscale to global scale. <i>Biogeosciences</i> , 2020, 17, 1507-1533.	1.3	58
451	<i>Serendipita restingae</i> sp. nov. (Sebacinales): an orchid mycorrhizal agaricomycete with wide host range. <i>Mycorrhiza</i> , 2021, 31, 1-15.	1.3	15
452	Crown-fire severity is more important than ground-fire severity in determining soil fungal community development in the boreal forest. <i>Journal of Ecology</i> , 2021, 109, 504-518.	1.9	31
453	Soil phosphorus mobilization and utilization by <i>Suillus</i> isolates and <i>Suillus</i> -mycorrhized pine plants. <i>Forest Ecology and Management</i> , 2021, 483, 118772.	1.4	3
454	Multigene phylogeny and taxonomic revision of Atheliales s.l.: Reinstatement of three families and one new family, Lobuliciaceae fam. nov.. <i>Fungal Biology</i> , 2021, 125, 239-255.	1.1	12
455	The effects of warming on root exudation and associated soil N transformation depend on soil nutrient availability. <i>Rhizosphere</i> , 2021, 17, 100263.	1.4	32
456	Genomic Analysis Enlightens Agaricales Lifestyle Evolution and Increasing Peroxidase Diversity. <i>Molecular Biology and Evolution</i> , 2021, 38, 1428-1446.	3.5	72
457	Intra-species genetic variability drives carbon metabolism and symbiotic host interactions in the ectomycorrhizal fungus <i>Pisolithus microcarpus</i> . <i>Environmental Microbiology</i> , 2021, 23, 2004-2020.	1.8	14
458	Comparative genomics reveals dynamic genome evolution in host specialist ectomycorrhizal fungi. <i>New Phytologist</i> , 2021, 230, 774-792.	3.5	37
459	Phosphate availability and ectomycorrhizal symbiosis with <i>Pinus sylvestris</i> have independent effects on the <i>Paxillus involutus</i> transcriptome. <i>Mycorrhiza</i> , 2021, 31, 69-83.	1.3	7
460	Nitrogen cycling microbiomes are structured by plant mycorrhizal associations with consequences for nitrogen oxide fluxes in forests. <i>Global Change Biology</i> , 2021, 27, 1068-1082.	4.2	41
461	Desert truffle genomes reveal their reproductive modes and new insights into plant-fungal interaction and ectomycorrhizal lifestyle. <i>New Phytologist</i> , 2021, 229, 2917-2932.	3.5	19
462	The mitogenomes of two saprophytic Boletales species ( <i>Coniophora</i> ) reveals intron dynamics and accumulation of plasmid-derived and non-conserved genes. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 401-414.	1.9	23
463	Draft Genome Sequences of the Black Truffles <i>Tuber brumale</i> Vittad. and <i>Tuber indicum</i> Cook & Masee. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.3	7

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464	Arbuscular Mycorrhizal Community in Roots and Nitrogen Uptake Patterns of Understorey Trees Beneath Ectomycorrhizal and Non-ectomycorrhizal Overstorey Trees. <i>Frontiers in Plant Science</i> , 2020, 11, 583585.	1.7	6
465	Evolutionary histories and mycorrhizal associations of mycoheterotrophic plants dependent on saprotrophic fungi. <i>Journal of Plant Research</i> , 2021, 134, 19-41.	1.2	21
466	Relevance of Metatranscriptomics in Symbiotic Associations Between Plants and Rhizosphere Microorganisms. , 2021, , 59-90.		2
467	Draft Genome Sequence of the Termite-Associated "Cuckoo Fungus," <i>Athelia</i> () Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5	0.3	2
468	Fungal Lignin-Modifying Peroxidases and H <sub>2</sub> O <sub>2</sub> -Producing Enzymes. , 2021, , 247-259.		11
470	Near-Chromosome-Level Genome Assembly of the Dark Septate Endophyte <i>Laburnicola rhizohalophila</i> : A Model for Investigating Root-Fungus Symbiosis. <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	6
471	Long-term nitrogen addition and reduced precipitation restructure soil fungal community in a temperate forest. <i>Scandinavian Journal of Forest Research</i> , 2021, 36, 105-116.	0.5	4
474	C-STABILITY an innovative modeling framework to leverage the continuous representation of organic matter. <i>Nature Communications</i> , 2021, 12, 810.	5.8	21
475	Plant evolution driven by interactions with symbiotic and pathogenic microbes. <i>Science</i> , 2021, 371, .	6.0	162
478	Effector Profiles of Endophytic <i>Fusarium</i> Associated with Asymptomatic Banana ( <i>Musa</i> sp.) Hosts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2508.	1.8	11
479	Evolution of Fungal Carbohydrate-Active Enzyme Portfolios and Adaptation to Plant Cell-Wall Polymers. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 185.	1.5	38
480	Long-term experimental warming and fertilization have opposing effects on ectomycorrhizal root enzyme activity and fungal community composition in Arctic tundra. <i>Soil Biology and Biochemistry</i> , 2021, 154, 108151.	4.2	13
481	Temperature sensitivity of SOM decomposition is linked with a K-selected microbial community. <i>Global Change Biology</i> , 2021, 27, 2763-2779.	4.2	155
483	Genome sequencing and comparative genomic analysis of highly and weakly aggressive strains of <i>Sclerotium rolfsii</i> , the causal agent of peanut stem rot. <i>BMC Genomics</i> , 2021, 22, 276.	1.2	20
484	Coupled Shifts in Ectomycorrhizal Communities and Plant Uptake of Organic Nitrogen Along a Soil Gradient: An Isotopic Perspective. <i>Ecosystems</i> , 2021, 24, 1976-1990.	1.6	16
485	Genomic Analysis and Assessment of Melanin Synthesis in <i>Amorphotheca resinae</i> KUC3009. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 289.	1.5	4
486	Perception of lipo-chitoooligosaccharides by the bioenergy crop <i>Populus</i> . <i>Plant Signaling and Behavior</i> , 2021, 16, 1903758.	1.2	6
488	Fungal Endophytes: Australian Terrestrial Orchids. , 0, , .		0

#	ARTICLE	IF	CITATIONS
489	Anthropogenic nitrogen enrichment increased the efficiency of belowground biomass production in a boreal forest. <i>Soil Biology and Biochemistry</i> , 2021, 155, 108154.	4.2	19
490	5â€Hydroxymethylâ€, 5â€Formylâ€and 5â€Carboxydeoxycytidines as Oxidative Lesions and Epigenetic Marks. <i>Chemistry - A European Journal</i> , 2021, 27, 8100-8104.	1.7	6
491	Soil fertility relates to fungalâ€mediated decomposition and organic matter turnover in a temperate mountain forest. <i>New Phytologist</i> , 2021, 231, 777-790.	3.5	31
493	Build Your Own Mushroom Soil: Microbiota Succession and Nutritional Accumulation in Semi-Synthetic Substratum Drive the Fructification of a Soil-Saprotrophic Morel. <i>Frontiers in Microbiology</i> , 2021, 12, 656656.	1.5	24
494	A widespread mechanism in ectomycorrhizal fungi to access nitrogen from mineralâ€associated proteins. <i>Environmental Microbiology</i> , 2021, 23, 5837-5849.	1.8	9
495	Progress and Prospects of Mycorrhizal Fungal Diversity in Orchids. <i>Frontiers in Plant Science</i> , 2021, 12, 646325.	1.7	32
496	How Mycorrhizal Associations Influence Orchid Distribution and Population Dynamics. <i>Frontiers in Plant Science</i> , 2021, 12, 647114.	1.7	25
497	The Rhizosphere Responds: Rich Fen Peat and Root Microbial Ecology after Long-Term Water Table Manipulation. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0024121.	1.4	4
498	Mycorrhizal type effects on leaf litter decomposition depend on litter quality and environmental context. <i>Biogeochemistry</i> , 2021, 155, 21-38.	1.7	20
499	A group of ectomycorrhizal fungi restricts organic matter accumulation in boreal forest. <i>Ecology Letters</i> , 2021, 24, 1341-1351.	3.0	74
500	Distribution of methionine sulfoxide reductases in fungi and conservation of the free-methionine-R-sulfoxide reductase in multicellular eukaryotes. <i>Free Radical Biology and Medicine</i> , 2021, 169, 187-215.	1.3	9
501	Advances and perspectives in discovery and functional analysis of small secreted proteins in plants. <i>Horticulture Research</i> , 2021, 8, 130.	2.9	20
502	Transcriptome Reveals Roles of Lignin-Modifying Enzymes and Abscisic Acid in the Symbiosis of <i>Mycena</i> and <i>Gastrodia elata</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 6557.	1.8	6
503	Symbiont switching and trophic mode shifts in Orchidaceae. <i>New Phytologist</i> , 2021, 231, 791-800.	3.5	24
504	Genome reduction and relaxed selection is associated with the transition to symbiosis in the basidiomycete genus <i>Podaxis</i> . <i>IScience</i> , 2021, 24, 102680.	1.9	9
505	A Comprehensive Phylogenetic and Bioinformatics Survey of Lectins in the Fungal Kingdom. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 453.	1.5	19
506	Mycobiota associated to Casa Moneta Museum wood, South Orkney Islands, Antarctica. <i>Polar Biology</i> , 2021, 44, 1817-1831.	0.5	4
507	Ericoid mycorrhizal shrubs alter the relationship between tree mycorrhizal dominance and soil carbon and nitrogen. <i>Journal of Ecology</i> , 2021, 109, 3524-3540.	1.9	19

#	ARTICLE	IF	CITATIONS
508	Applications of nanocellulosic products in food: Manufacturing processes, structural features and multifaceted functionalities. <i>Trends in Food Science and Technology</i> , 2021, 113, 277-300.	7.8	23
509	Determination of Diversity, Distribution and Host Specificity of Korean <i>Laccaria</i> Using Four Approaches. <i>Mycobiology</i> , 2021, 49, 461-468.	0.6	0
510	N enrichment affects the arbuscular mycorrhizal fungi-mediated relationship between a C4 grass and a legume. <i>Plant Physiology</i> , 2021, 187, 1519-1533.	2.3	11
511	Genome-Wide Analysis of Nutrient Signaling Pathways Conserved in Arbuscular Mycorrhizal Fungi. <i>Microorganisms</i> , 2021, 9, 1557.	1.6	9
512	<i>Serendipita</i> Fungi Modulate the Switchgrass Root Transcriptome to Circumvent Host Defenses and Establish a Symbiotic Relationship. <i>Molecular Plant-Microbe Interactions</i> , 2021, 34, 1128-1142.	1.4	6
513	Evolutionary Insights Into Two Widespread Ectomycorrhizal Fungi ( <i>Pisolithus</i> ) From Comparative Analysis of Mitochondrial Genomes. <i>Frontiers in Microbiology</i> , 2021, 12, 583129.	1.5	2
514	Draft Genome Sequence of the Ectomycorrhizal Fungus <i>Astraeus odoratus</i> from Northern Thailand. <i>Microbiology Resource Announcements</i> , 2021, 10, e0004421.	0.3	0
517	Quo vadis: signaling molecules and small secreted proteins from mycorrhizal fungi at the early stage of mycorrhiza formation. <i>Symbiosis</i> , 2021, 85, 123-143.	1.2	8
518	Host Adaptation and Virulence in Heteroecious Rust Fungi. <i>Annual Review of Phytopathology</i> , 2021, 59, 403-422.	3.5	30
519	Evolution of the Mode of Nutrition in Symbiotic and Saprotrophic Fungi in Forest Ecosystems. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2021, 52, 385-404.	3.8	26
520	Novel Microdialysis Technique Reveals a Dramatic Shift in Metabolite Secretion during the Early Stages of the Interaction between the Ectomycorrhizal Fungus <i>Pisolithus microcarpus</i> and Its Host <i>Eucalyptus grandis</i> . <i>Microorganisms</i> , 2021, 9, 1817.	1.6	6
521	Growth responses of ectomycorrhizal and arbuscular mycorrhizal seedlings to low soil nitrogen availability in a tropical montane forest. <i>Functional Ecology</i> , 2022, 36, 107-119.	1.7	7
522	Genomic and Experimental Investigations of <i>Auriscalpium</i> and <i>Strobilurus</i> Fungi Reveal New Insights into Pinecone Decomposition. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 679.	1.5	1
523	Transcriptome Profiling Reveals Differential Gene Expression of Secreted Proteases and Highly Specific Gene Repertoires Involved in <i>Lactarius</i> – <i>Pinus</i> Symbioses. <i>Frontiers in Plant Science</i> , 2021, 12, 714393.	1.7	12
525	What drives leaf litter decomposition and the decomposer community in subtropical forests – The richness of the above-ground tree community or that of the leaf litter?. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108314.	4.2	21
526	FunOrder: A robust and semi-automated method for the identification of essential biosynthetic genes through computational molecular co-evolution. <i>PLoS Computational Biology</i> , 2021, 17, e1009372.	1.5	9
527	Whole-Genome and Transcriptome Sequencing of <i>Phlebopus portentosus</i> Reveals Its Associated Ectomycorrhizal Niche and Conserved Pathways Involved in Fruiting Body Development. <i>Frontiers in Microbiology</i> , 2021, 12, 732458.	1.5	8
528	Fungi in Permafrost-Affected Soils of the Canadian Arctic: Horizon- and Site-Specific Keystone Taxa Revealed by Co-Occurrence Network. <i>Microorganisms</i> , 2021, 9, 1943.	1.6	9

#	ARTICLE	IF	CITATIONS
529	Ectomycorrhizal fungal decay traits along a soil nitrogen gradient. <i>New Phytologist</i> , 2021, 232, 2152-2164.	3.5	14
530	Survival and growth of saprotrophic and mycorrhizal fungi in recalcitrant amine, amide and ammonium containing media. <i>PLoS ONE</i> , 2021, 16, e0244910.	1.1	1
531	Cross-Sectional Study on the Gut Microbiome of Parkinson's Disease Patients in Central China. <i>Frontiers in Microbiology</i> , 2021, 12, 728479.	1.5	13
533	Symbiotic nitrogen fixation in the reproductive structures of a basidiomycete fungus. <i>Current Biology</i> , 2021, 31, 3905-3914.e6.	1.8	17
534	Ectomycorrhizal access to organic nitrogen mediates CO <sub>2</sub> fertilization response in a dominant temperate tree. <i>Nature Communications</i> , 2021, 12, 5403.	5.8	20
535	Stoichiometry of Carbon, Nitrogen and Phosphorus in Shrub Organs Linked Closely With Mycorrhizal Strategy in Northern China. <i>Frontiers in Plant Science</i> , 2021, 12, 687347.	1.7	10
538	Delimiting species in Basidiomycota: a review. <i>Fungal Diversity</i> , 2021, 109, 181-237.	4.7	18
539	Impact of nitrogen and phosphorus addition on resident soil and root mycobionemes in beech forests. <i>Biology and Fertility of Soils</i> , 2021, 57, 1031-1052.	2.3	18
540	Arbuscular mycorrhizal fungi and goethite promote carbon sequestration via hyphal-aggregate mineral interactions. <i>Soil Biology and Biochemistry</i> , 2021, 162, 108417.	4.2	31
541	Tree species composition and soil properties in pure and mixed beech-conifer stands drive soil fungal communities. <i>Forest Ecology and Management</i> , 2021, 502, 119709.	1.4	15
542	Disentangling the role of ectomycorrhizal fungi in plant nutrient acquisition along a Zn gradient using X-ray imaging. <i>Science of the Total Environment</i> , 2021, 801, 149481.	3.9	4
543	Lytic polysaccharide monooxygenases (LPMOs) producing microbes: A novel approach for rapid recycling of agricultural wastes. <i>Science of the Total Environment</i> , 2022, 806, 150451.	3.9	16
544	Fungal community of forest soil: Diversity, functions, and services. , 2021, , 231-255.		2
545	Forest Microhabitat Affects Succession of Fungal Communities on Decomposing Fine Tree Roots. <i>Frontiers in Microbiology</i> , 2021, 12, 541583.	1.5	12
546	Fungal Lytic Polysaccharide Monooxygenases (LPMOs): Biological Importance and Applications. , 2021, , 281-294.		7
547	Two distinct catalytic pathways for GH43 xylanolytic enzymes unveiled by X-ray and QM/MM simulations. <i>Nature Communications</i> , 2021, 12, 367.	5.8	27
548	Conservation of Edible Ectomycorrhizal Mushrooms: Understanding of the ECM Fungi Mediated Carbon and Nitrogen Movement within Forest Ecosystems. , 0, , .		3
549	Evolution of lignin decomposition systems in fungi. <i>Advances in Botanical Research</i> , 2021, 99, 37-76.	0.5	10

#	ARTICLE	IF	CITATIONS
550	Role of Jasmonates in Beneficial Microbeâ€“Root Interactions. <i>Methods in Molecular Biology</i> , 2020, 2085, 43-67.	0.4	9
551	Fungal Peroxygenases: A Phylogenetically Old Superfamily of Heme Enzymes with Promiscuity for Oxygen Transfer Reactions. <i>Grand Challenges in Biology and Biotechnology</i> , 2020, , 369-403.	2.4	53
552	Progress and Research Needs of Plant Biomass Degradation by Basidiomycete Fungi. <i>Grand Challenges in Biology and Biotechnology</i> , 2020, , 405-438.	2.4	11
553	Overview of Phylogenetic Approaches to Mycorrhizal Biogeography, Diversity and Evolution. <i>Ecological Studies</i> , 2017, , 1-37.	0.4	7
554	Processes Maintaining the Coexistence of Ectomycorrhizal Fungi at a Fine Spatial Scale. <i>Ecological Studies</i> , 2017, , 79-105.	0.4	12
555	Ectomycorrhizal Fungal Lineages: Detection of Four New Groups and Notes on Consistent Recognition of Ectomycorrhizal Taxa in High-Throughput Sequencing Studies. <i>Ecological Studies</i> , 2017, , 125-142.	0.4	43
556	Biogeography of Orchid Mycorrhizas. <i>Ecological Studies</i> , 2017, , 159-177.	0.4	40
557	Uncovering the hidden diversity of litter-decomposition mechanisms in mushroom-forming fungi. <i>ISME Journal</i> , 2020, 14, 2046-2059.	4.4	53
558	Fruiting body form, not nutritional mode, is the major driver of diversification in mushroom-forming fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32528-32534.	3.3	65
559	Dissimilar pigment regulation in <i>Serpula lacrymans</i> and <i>Paxillus involutus</i> during inter-kingdom interactions. <i>Microbiology (United Kingdom)</i> , 2018, 164, 65-77.	0.7	23
567	Evolution of High Cellulolytic Activity in Symbiotic <i>Streptomyces</i> through Selection of Expanded Gene Content and Coordinated Gene Expression. <i>PLoS Biology</i> , 2016, 14, e1002475.	2.6	68
568	Metatranscriptomic Study of Common and Host-Specific Patterns of Gene Expression between Pines and Their Symbiotic Ectomycorrhizal Fungi in the Genus <i>Suillus</i> . <i>PLoS Genetics</i> , 2016, 12, e1006348.	1.5	82
569	Genome Sequence of the Edible Cultivated Mushroom <i>Lentinula edodes</i> (Shiitake) Reveals Insights into Lignocellulose Degradation. <i>PLoS ONE</i> , 2016, 11, e0160336.	1.1	110
570	Fungal Shaker-like channels beyond cellular K <sup>+</sup> homeostasis: A role in ectomycorrhizal symbiosis between <i>Hebeloma cylindrosporum</i> and <i>Pinus pinaster</i> . <i>PLoS ONE</i> , 2020, 15, e0242739.	1.1	10
571	Secretion of Iron(III)-Reducing Metabolites during Protein Acquisition by the Ectomycorrhizal Fungus <i>Paxillus involutus</i> . <i>Microorganisms</i> , 2021, 9, 35.	1.6	9
572	Genomics and metagenomics technologies to recover ribosomal DNA and single-copy genes from old fruit-body and ectomycorrhiza specimens. <i>MycKeys</i> , 0, 13, 1-20.	0.8	21
574	Intrinsic cooperativity potentiates parallel cis-regulatory evolution. <i>ELife</i> , 2018, 7, .	2.8	19
575	Algae and fungi move from the past to the future. <i>ELife</i> , 2019, 8, .	2.8	10

#	ARTICLE	IF	CITATIONS
576	Genomic insight into pathogenicity of dematiaceous fungus <i>Corynespora cassiicola</i> . PeerJ, 2017, 5, e2841.	0.9	37
577	Structural plasticity in root-fungal symbioses: diverse interactions lead to improved plant fitness. PeerJ, 2018, 6, e6030.	0.9	47
578	Distinct gene expression and secondary metabolite profiles in <i>suppressor of prosystemin-mediated responses2 (spr2)</i> tomato mutants having impaired mycorrhizal colonization. PeerJ, 2020, 8, e8888.	0.9	6
579	The Waiting Room Hypothesis revisited by orchids: were orchid mycorrhizal fungi recruited among root endophytes?. Annals of Botany, 2022, 129, 259-270.	1.4	51
580	Karst rocky desertification diverged the soil residing and the active ectomycorrhizal fungal communities thereby fostering distinctive extramatrical mycelia. Science of the Total Environment, 2021, , 151016.	3.9	7
581	Soil Layers Matter: Vertical Stratification of Root-Associated Fungal Assemblages in Temperate Forests Reveals Differences in Habitat Colonization. Microorganisms, 2021, 9, 2131.	1.6	6
582	Volatile Organic Compounds in the Azteca/Cecropia Ant-Plant Symbiosis and the Role of Black Fungi. Journal of Fungi (Basel, Switzerland), 2021, 7, 836.	1.5	5
583	Mycorrhizal associations of tree species influence soil nitrogen dynamics via effects on soil acid-base chemistry. Global Ecology and Biogeography, 2022, 31, 168-182.	2.7	15
584	Abscisic acid supports colonization of <i>Eucalyptus grandis</i> roots by the mutualistic ectomycorrhizal fungus <i>Pisolithus microcarpus</i> . New Phytologist, 2022, 233, 966-982.	3.5	12
585	Fungal strategies of potassium extraction from silicates of different resistance as manifested in differential weathering and gene expression. Geochimica Et Cosmochimica Acta, 2022, 316, 168-200.	1.6	7
586	Mycorrhizal mycelial respiration: A substantial component of soil respired CO <sub>2</sub> . Soil Biology and Biochemistry, 2021, 163, 108454.	4.2	7
587	Identification and characterization of eight metallothionein genes involved in heavy metal tolerance from the ectomycorrhizal fungus <i>Laccaria bicolor</i> . Environmental Science and Pollution Research, 2021, , 1.	2.7	2
588	Transcriptomics Reveals the Putative Mycoparasitic Strategy of the Mushroom <i>Entoloma abortivum</i> on Species of the Mushroom Genus <i>Armillaria</i> . MSystems, 2021, 6, e0054421.	1.7	3
589	Ectomycorrhizal root tips harbor distinctive fungal associates along a soil nitrogen gradient. Fungal Ecology, 2021, 54, 101111.	0.7	5
590	Whole Genome Analysis of Fungi. Journal of Bacteriology & Mycology Open Access, 2016, 2, .	0.2	0
601	Tree Ecosystem: Microbial Dynamics and Functionality. , 2019, , 411-450.		0
602	Recent Developments in Ectomycorrhizal Research. , 2019, , 301-323.		1
607	The Role of Lytic Polysaccharide Monooxygenases in Wood Rotting Basidiomycetes. Trends in Glycoscience and Glycotechnology, 2020, 32, E135-E143.	0.0	3

#	ARTICLE	IF	CITATIONS
610	Whole genome sequencing of an edible and medicinal mushroom, <i>Russula griseocarnosa</i> , and its association with mycorrhizal characteristics. <i>Gene</i> , 2022, 808, 145996.	1.0	4
611	Lytic Polysaccharide Monooxygenases-Driven Degradation of Biorefinery Lignocellulose. <i>Clean Energy Production Technologies</i> , 2020, , 297-333.	0.3	0
612	Molecular and Genetic Strategies for Enhanced Production of Heterologous Lignocellulosic Enzymes. <i>Grand Challenges in Biology and Biotechnology</i> , 2020, , 281-313.	2.4	1
613	9 Fungal Genomics. , 2020, , 207-224.		0
616	The Role of Lytic Polysaccharide Monooxygenases in Wood Rotting Basidiomycetes. <i>Trends in Glycoscience and Glycotechnology</i> , 2020, 32, J111-J119.	0.0	0
617	Applicability and information value of biocalorimetry for the monitoring of fungal solid-state fermentation of lignocellulosic agricultural by-products. <i>New Biotechnology</i> , 2022, 66, 97-106.	2.4	5
618	Discovery and Community Dynamics of Novel ssRNA Mycoviruses in the Conifer Pathogen <i>Heterobasidion parviporum</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 770787.	1.5	11
619	Evolutionary Morphogenesis of Sexual Fruiting Bodies in Basidiomycota: Toward a New Evo-Devo Synthesis. <i>Microbiology and Molecular Biology Reviews</i> , 2022, 86, e0001921.	2.9	13
620	Decay by ectomycorrhizal fungi couples soil organic matter to nitrogen availability. <i>Ecology Letters</i> , 2022, 25, 391-404.	3.0	32
621	Mycorrhizal Fungal Partners Remain Constant during a Root Lifecycle of <i>Pleione bulbocodioides</i> (Orchidaceae). <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 994.	1.5	4
622	Evidence for exon shuffling is sensitive to model choice. <i>Journal of Bioinformatics and Computational Biology</i> , 2021, 19, 2140013.	0.3	1
624	Evolutionary innovations through gain and loss of genes in the ectomycorrhizal Boletales. <i>New Phytologist</i> , 2022, 233, 1383-1400.	3.5	19
625	Evolutionary transition to the ectomycorrhizal habit in the genomes of a hyperdiverse lineage of mushroom-forming fungi. <i>New Phytologist</i> , 2022, 233, 2294-2309.	3.5	21
627	Synergism between feremycorrhizal symbiosis and free-living diazotrophs leads to improved growth and nutrition of wheat under nitrogen deficiency conditions. <i>Biology and Fertility of Soils</i> , 2022, 58, 121-133.	2.3	10
628	Transcriptional Landscape of Ectomycorrhizal Fungi and Their Host Provides Insight into N Uptake from Forest Soil. <i>MSystems</i> , 2022, 7, e0095721.	1.7	11
629	Species-level identity of <i>Pisolithus</i> influences soil phosphorus availability for host plants and is moderated by nitrogen status, but not CO <sub>2</sub> . <i>Soil Biology and Biochemistry</i> , 2022, 165, 108520.	4.2	7
630	Ericoid mycorrhizal colonization and associated fungal communities along a wetland gradient in the Acadian forest of Eastern Canada. <i>Fungal Ecology</i> , 2022, 56, 101138.	0.7	6
631	Crecimiento de <i>Trichoderma</i> en rastrojo de piñón para obtener esporas para uso agrícola. <i>Agronomy Mesoamerican</i> , 0, , 597-608.	0.1	0

#	ARTICLE	IF	CITATIONS
633	The ectomycorrhizal basidiomycete <i>Laccaria bicolor</i> releases a GH28 polygalacturonase that plays a key role in symbiosis establishment. <i>New Phytologist</i> , 2022, 233, 2534-2547.	3.5	16
634	Comparative genome analysis of plant ascomycete fungal pathogens with different lifestyles reveals distinctive virulence strategies. <i>BMC Genomics</i> , 2022, 23, 34.	1.2	13
635	Nitrogen fertilization differentially affects the symbiotic capacity of two co-occurring ectomycorrhizal species. <i>Environmental Microbiology</i> , 2022, 24, 309-323.	1.8	3
636	In Silico Predictions of Ecological Plasticity Mediated by Protein Family Expansions in Early-Diverging Fungi. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 67.	1.5	3
637	Predictors of taxonomic and functional composition of black spruce seedling ectomycorrhizal fungal communities along peatland drainage gradients. <i>Mycorrhiza</i> , 2022, 32, 67-81.	1.3	7
638	The ectomycorrhizal fungus <i>Pisolithus microcarpus</i> encodes a microRNA involved in cross-kingdom gene silencing during symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	53
640	Buy one, get two. <i>Nature Plants</i> , 2022, 8, 100-101.	4.7	1
641	Endophytic Fungal Terpenoids: Natural Role and Bioactivities. <i>Microorganisms</i> , 2022, 10, 339.	1.6	16
642	Alpine constructed wetlands: A metagenomic analysis reveals microbial complementary structure. <i>Science of the Total Environment</i> , 2022, 822, 153640.	3.9	3
643	Surviving trees and deadwood moderate changes in soil fungal communities and associated functioning after natural forest disturbance and salvage logging. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108558.	4.2	20
644	Genomic Analysis of <i>Stropharia rugosoannulata</i> Reveals Its Nutritional Strategy and Application Potential in Bioremediation. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 162.	1.5	5
645	Genetic determinants of endophytism in the <i>Arabidopsis</i> root mycobiome. <i>Nature Communications</i> , 2021, 12, 7227.	5.8	58
647	Taming the beast: a revised classification of Cortinariaceae based on genomic data. <i>Fungal Diversity</i> , 2022, 112, 89-170.	4.7	24
648	Iron-reducing capacity of wood decayed by wood rotting basidiomycetes. <i>MOKUZAI HOZON (Wood) Tj ETQq1 1 0.784314 rgBT /Over</i>	0.1	0
649	Dominant tree mycorrhizal associations affect soil nitrogen transformation rates by mediating microbial abundances in a temperate forest. <i>Biogeochemistry</i> , 2022, 158, 405-421.	1.7	11
650	Unearthing the plant-microbe <i>quid pro quo</i> in root associations with beneficial fungi. <i>New Phytologist</i> , 2022, 234, 1967-1976.	3.5	24
651	Comparative transcriptomics of fungal endophytes in co-culture with their moss host <i>Dicranum scoparium</i> reveals fungal trophic lability and moss unchanged to slightly increased growth rates. <i>New Phytologist</i> , 2022, 234, 1832-1847.	3.5	5
652	Genomic Comparisons of Two <i>Armillaria</i> Species with Different Ecological Behaviors and Their Associated Soil Microbial Communities. <i>Microbial Ecology</i> , 2023, 85, 708-729.	1.4	5

#	ARTICLE	IF	CITATIONS
653	Basidiomycota Fungi and ROS: Genomic Perspective on Key Enzymes Involved in Generation and Mitigation of Reactive Oxygen Species. <i>Frontiers in Fungal Biology</i> , 2022, 3, .	0.9	12
654	Phylogenomics and Comparative Genomics Highlight Specific Genetic Features in <i>Ganoderma</i> Species. <i>Journal of Fungi</i> (Basel, Switzerland), 2022, 8, 311.	1.5	10
655	Comparative genomics reveals a dynamic genome evolution in the ectomycorrhizal milk-caper ( <i>Lactarius</i> ) mushrooms. <i>New Phytologist</i> , 2022, 235, 306-319.	3.5	14
656	Differences in the short-term responses of soil nitrogen and microbial dynamics to soil moisture variation in two adjacent dryland forests. <i>European Journal of Soil Biology</i> , 2022, 110, 103394.	1.4	2
657	Links between boreal forest management, soil fungal communities and below-ground carbon sequestration. <i>Functional Ecology</i> , 2022, 36, 392-405.	1.7	13
660	Plant invasions facilitated by suppression of root nutrient acquisition rather than by disruption of mycorrhizal association in the native plant. <i>Plant Diversity</i> , 2022, 44, 499-504.	1.8	4
661	Micorrizas del bosque tropical caducifolio y otras simbiosis fúngicas. <i>Acta Botanica Mexicana</i> , 2021, , .	0.1	0
662	Extracellular Enzyme Activities and Carbon/Nitrogen Utilization in Mycorrhizal Fungi Isolated From Epiphytic and Terrestrial Orchids. <i>Frontiers in Microbiology</i> , 2021, 12, 787820.	1.5	4
663	A Transcriptomic Atlas of the Ectomycorrhizal Fungus <i>Laccaria bicolor</i> . <i>Microorganisms</i> , 2021, 9, 2612.	1.6	11
664	Lifestyle Transitions in Fusarioid Fungi are Frequent and Lack Clear Genomic Signatures. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	15
665	Fungal dye-decolorizing peroxidase diversity: roles in either intra- or extracellular processes. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 2993-3007.	1.7	3
711	Advanced research tools for fungal diversity and its impact on forest ecosystem. <i>Environmental Science and Pollution Research</i> , 2022, 29, 45044-45062.	2.7	12
712	Comparative Transcriptomics Analysis of the Symbiotic Germination of <i>D. officinale</i> (Orchidaceae) With Emphasis on Plant Cell Wall Modification and Cell Wall-Degrading Enzymes. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	7
713	Large differences in carbohydrate degradation and transport potential among lichen fungal symbionts. <i>Nature Communications</i> , 2022, 13, 2634.	5.8	24
714	Choosing a Favorable Substrate to Cultivate Native Orchids Symbiotically: Examples Using <i>Goodyera tessellata</i> and <i>Platanthera blephariglottis</i> . <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2022, 57, 634-642.	0.5	2
715	Determinants of endophytic and pathogenic lifestyle in root colonizing fungi. <i>Current Opinion in Plant Biology</i> , 2022, 67, 102226.	3.5	23
716	Acquisition of nitrogen from tannin protein complexes in ectomycorrhizal pine seedlings. <i>Pedobiologia</i> , 2022, , 150817.	0.5	1
717	The Transcription Factor <i>Roc1</i> Is a Key Regulator of Cellulose Degradation in the Wood-Decaying Mushroom <i>Schizophyllum commune</i> . <i>MBio</i> , 2022, 13, .	1.8	10

#	ARTICLE	IF	CITATIONS
718	What to Do with <i>Prototaxites</i> ?. International Journal of Plant Sciences, 2022, 183, 556-565.	0.6	6
719	Plant-microbe interactions that have impacted plant terrestrializations. Plant Physiology, 2022, 190, 72-84.	2.3	10
720	Synergistic effect of phytohormone-producing ectomycorrhizal fungus <i>Suillus luteus</i> and fertilizer GGR6 on <i>Pinus massoniana</i> growth. Journal of Plant Interactions, 2022, 17, 643-655.	1.0	1
721	Re-evaluation of Symptoventuriaceae. Persoonia: Molecular Phylogeny and Evolution of Fungi, 2022, , .	1.6	2
722	Ectomycorrhizal Symbiosis: From Genomics to Trans-Kingdom Molecular Communication and Signaling. Rhizosphere Biology, 2022, , 273-296.	0.4	2
724	Beyond Nuclear Ribosomal DNA Sequences: Evolution, Taxonomy, and Closest Known Saprobiic Relatives of Powdery Mildew Fungi (Erysiphaceae) Inferred From Their First Comprehensive Genome-Scale Phylogenetic Analyses. Frontiers in Microbiology, 0, 13, .	1.5	7
725	The functional role of ericoid mycorrhizal plants and fungi on carbon and nitrogen dynamics in forests. New Phytologist, 2022, 235, 1701-1718.	3.5	25
726	Intracellular sequestration of cadmium and zinc in ectomycorrhizal fungus <i>Amanita muscaria</i> (Agaricales, Amanitaceae) and characterization of its metallothionein gene. Fungal Genetics and Biology, 2022, 162, 103717.	0.9	5
727	A comparative genomic analysis of lichen-forming fungi reveals new insights into fungal lifestyles. Scientific Reports, 2022, 12, .	1.6	6
728	Metatranscriptomics captures dynamic shifts in mycorrhizal coordination in boreal forests. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	12
729	Mycorrhizas: Role in N and P cycling and nutrition of forest trees. , 2022, , 405-422.		0
730	Conserved secreted effectors contribute to endophytic growth and multihost plant compatibility in a vascular wilt fungus. Plant Cell, 2022, 34, 3214-3232.	3.1	20
731	Leveraging genomics to understand the broader role of fungal small secreted proteins in niche colonization and nutrition. ISME Communications, 2022, 2, .	1.7	6
732	Interaction With Fungi Promotes the Accumulation of Specific Defense Molecules in Orchid Tubers and May Increase the Value of Tubers for Biotechnological and Medicinal Applications: The Case Study of Interaction Between <i>Dactylorhiza</i> sp. and <i>Tulasnella calospora</i> . Frontiers in Plant Science, 0, 13, .	1.7	5
734	<i>Laccaria bicolor</i> pectin methylesterases are involved in ectomycorrhiza development with <i>Populus tremula</i> – <i>Populus tremuloides</i> . New Phytologist, 2022, 236, 639-655.	3.5	7
735	Potential benefits and harms: a review of poisonous mushrooms in the world. Fungal Biology Reviews, 2022, 42, 56-68.	1.9	8
736	Mycorrhiza-induced mycocypins of <i>Laccaria bicolor</i> are potent protease inhibitors with nematotoxic and collembola antifeedant activity. Environmental Microbiology, 2022, 24, 4607-4622.	1.8	2
737	Stoichiometric Ratios of Carbon, Nitrogen and Phosphorus of Shrub Organs Vary with Mycorrhizal Type. Agriculture (Switzerland), 2022, 12, 1061.	1.4	5

#	ARTICLE	IF	CITATIONS
738	Comparative Genome Analyses of Plant Rust Pathogen Genomes Reveal a Confluence of Pathogenicity Factors to Quell Host Plant Defense Responses. <i>Plants</i> , 2022, 11, 1962.	1.6	3
739	Potential Specificity Between Mycorrhizal Fungi Isolated from Widespread <i>Dendrobium</i> spp. and Rare <i>D. huoshanense</i> Seeds. <i>Current Microbiology</i> , 2022, 79, .	1.0	4
740	Decomposition of soil organic matter by ectomycorrhizal fungi: Mechanisms and consequences for organic nitrogen uptake and soil carbon stabilization. <i>Frontiers in Forests and Global Change</i> , 0, 5, .	1.0	4
741	Las micorrizas como una herramienta para la restauraci3n ecol3gica. <i>Acta Botanica Mexicana</i> , 2022, , .	0.1	3
743	X-Ray Scattering Reveals Two Mechanisms of Cellulose Microfibril Degradation by Filamentous Fungi. <i>Applied and Environmental Microbiology</i> , 0, , .	1.4	0
744	Impact of twenty pesticides on soil carbon microbial functions and community composition. <i>Chemosphere</i> , 2022, 307, 135820.	4.2	17
745	Field-aged biochar enhances soil organic carbon by increasing recalcitrant organic carbon fractions and making microbial communities more conducive to carbon sequestration. <i>Agriculture, Ecosystems and Environment</i> , 2022, 340, 108177.	2.5	17
746	Identification of upregulated genes in <i>Tricholoma matsutake</i> mycorrhiza. <i>FEMS Microbiology Letters</i> , 2022, 369, .	0.7	2
747	Effects of vegetation shift from needleleaf to broadleaf species on forest soil CO2 emission. <i>Science of the Total Environment</i> , 2023, 856, 158907.	3.9	5
750	Watershed-scale Variation in Potential Fungal Community Contributions to Ectomycorrhizal Biogeochemical Syndromes. <i>Ecosystems</i> , 2023, 26, 724-739.	1.6	1
751	Advances and prospects of orchid research and industrialization. <i>Horticulture Research</i> , 2022, 9, .	2.9	11
752	Whole-Genome Sequencing and Comparative Genomics Analysis of the Wild Edible Mushroom ( <i>Gomphus purpuraceus</i> ) Provide Insights into Its Potential Food Application and Artificial Domestication. <i>Genes</i> , 2022, 13, 1628.	1.0	4
753	Contrasting continental patterns of adaptive population divergence in the holarctic ectomycorrhizal fungus <i>Boletus edulis</i> . <i>New Phytologist</i> , 2023, 237, 295-309.	3.5	3
754	Functional Guilds, Community Assembly, and Co-occurrence Patterns of Fungi in Metalliferous Mine Tailings Ponds in Mainland China. <i>Microbial Ecology</i> , 0, , .	1.4	2
755	Climatic similarity and genomic background shape the extent of parallel adaptation in <i>Timema</i> stick insects. <i>Nature Ecology and Evolution</i> , 2022, 6, 1952-1964.	3.4	3
756	Strong phylogenetic congruence between <i>Tulasnella</i> fungi and their associated <i>Drakaeinae</i> orchids. <i>Journal of Evolutionary Biology</i> , 2023, 36, 221-237.	0.8	2
757	Ericoid mycorrhizal fungi as biostimulants for improving propagation and production of ericaceous plants. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	6
758	Preassembled Cas9 Ribonucleoprotein-Mediated Gene Deletion Identifies the Carbon Catabolite Repressor and Its Target Genes in <i>Coprinopsis cinerea</i> . <i>Applied and Environmental Microbiology</i> , 2022, 88, .	1.4	6

#	ARTICLE	IF	CITATIONS
759	A facultative ectomycorrhizal association is triggered by organic nitrogen. <i>Current Biology</i> , 2022, 32, 5235-5249.e7.	1.8	5
760	Two new species of <i>Phaeohelotium</i> (Leotiomycetes: Helotiaceae) from Chile and their putative ectomycorrhizal status. <i>Fungal Systematics and Evolution</i> , 2022, , .	0.9	0
761	Reactive oxygen species (ROS) in mycorrhizal fungi and symbiotic interactions with plants. <i>Advances in Botanical Research</i> , 2023, , 239-275.	0.5	2
762	Contrasting plantâ€“soilâ€“microbial feedbacks stabilize vegetation types and uncouple topsoil C and N stocks across a subarcticâ€“alpine landscape. <i>New Phytologist</i> , 2023, 238, 2621-2633.	3.5	8
763	The Effects of <i>Suillus luteus</i> Inoculation on the Diversity of Fungal Communities and Their Structures in the Soil under <i>Pinus massoniana</i> Located in a Mining Area. <i>Forests</i> , 2022, 13, 2162.	0.9	2
764	Genome-level analyses resolve an ancient lineage of symbiotic ascomycetes. <i>Current Biology</i> , 2022, 32, 5209-5218.e5.	1.8	14
766	Mycorrhizal nutrient acquisition strategies shape tree competition and coexistence dynamics. <i>Journal of Ecology</i> , 2023, 111, 564-577.	1.9	1
768	Role of carbohydrate-active enzymes in mycorrhizal symbioses. <i>Essays in Biochemistry</i> , 2023, 67, 471-478.	2.1	3
769	Impact of model assumptions on the inference of the evolution of ectomycorrhizal symbiosis in fungi. <i>Scientific Reports</i> , 2022, 12, .	1.6	0
770	<scp>eDNA</scp> metabarcoding reveals high soil fungal diversity and variation in community composition among Spanish cliffs. <i>Ecology and Evolution</i> , 2022, 12, .	0.8	4
771	The genome of <i>Lyophyllum shimeji</i> provides insight into the initial evolution of ectomycorrhizal fungal genomes. <i>DNA Research</i> , 2023, 30, .	1.5	1
772	Fungal community composition and genetic potential regulate fine root decay in northern temperate forests. <i>Molecular Ecology</i> , 2023, 32, 2005-2021.	2.0	3
773	Variability in Nutrient Use by Orchid Mycorrhizal Fungi in Two Medium Types. <i>Journal of Fungi (Basel)</i> , 2023, 9, 1071-1083.	1.5	3
774	Response to Feremycorrhizal fungi: A confusing and erroneous termâ€“ Feremycorrhiza means â€“nearly mycorrhizaâ€“™; hence, it is a clear and correct term because the fungal partner has mycorrhizal traits and lineage. <i>Soil Biology and Biochemistry</i> , 2023, 177, 108934.	4.2	1
775	Genomic diversification of the specialized parasite of the fungus-growing ant symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	4
776	Screening of Antibacterial Activity of Some Resupinate Fungi, Reveal <i>Gloeocystidiellum lojanense</i> sp. nov. (Russulales) against <i>E. coli</i> from Ecuador. <i>Journal of Fungi (Basel, Switzerland)</i> , 2023, 9, 54.	1.5	0
777	Functional genomics gives new insights into the ectomycorrhizal degradation of chitin. <i>New Phytologist</i> , 2023, 238, 845-858.	3.5	6
778	Lessons on fruiting body morphogenesis from genomes and transcriptomes of <i>Agaricomycetes</i> . <i>Studies in Mycology</i> , 2023, 104, 1-85.	4.5	9

#	ARTICLE	IF	CITATIONS
779	Characterization and genome-wide sequence analysis of an ectomycorrhizal fungus <i>Pisolithus albus</i> , a potential source for reclamation of degraded lands. <i>3 Biotech</i> , 2023, 13, .	1.1	1
780	Speciation Underpinned by Unexpected Molecular Diversity in the Mycorrhizal Fungal Genus <i>Pisolithus</i> . <i>Molecular Biology and Evolution</i> , 2023, 40, .	3.5	11
781	Acquisition of host-derived carbon in biomass of the ectomycorrhizal fungus <i>Pisolithus microcarpus</i> is correlated to fungal carbon demand and plant defences. <i>FEMS Microbiology Ecology</i> , 2023, 99, .	1.3	7
782	Predicting functions of putative fungal sesquiterpene synthase genes based on multiomics data analysis. <i>Fungal Genetics and Biology</i> , 2023, 165, 103779.	0.9	3
783	Boletaceae in China: Taxonomy and phylogeny reveal a new genus, two new species, and a new record. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	1
784	Impacts of coniferous bark-derived organic soil amendments on microbial communities in arable soil – a microcosm study. <i>FEMS Microbiology Ecology</i> , 2023, 99, .	1.3	1
785	Whole genome sequence of <i>Cryptosphaeria pullmanensis</i> , an important pathogenic fungus potentially threatening crop and forestry production. <i>Genomics</i> , 2023, 115, 110576.	1.3	2
786	Mycorrhizal Symbiosis in Plant Growth and Stress Adaptation: From Genes to Ecosystems. <i>Annual Review of Plant Biology</i> , 2023, 74, 569-607.	8.6	48
788	Analysis of synonymous codon usage patterns in mitochondrial genomes of nine <i>Amanita</i> species. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	17
789	Role of mycorrhizas and root exudates in plant uptake of soil nutrients (calcium, iron, magnesium,) $T_j ETQq1 1 0.784314 \text{ rgBT} / \text{Overlock}$	2.8	12
790	Biodiversity of <i>Tricholoma matsutake</i> (syn. <i>T. nauseosum</i> ) and its related species based on repetitive DNA and genomics. <i>Botany</i> , 2023, 101, 138-154.	0.5	1
791	Applying molecular and genetic methods to trees and their fungal communities. <i>Applied Microbiology and Biotechnology</i> , 2023, 107, 2783-2830.	1.7	0
792	Mycorrhiza Better Predict Soil Fungal Community Composition and Function than Aboveground Traits in Temperate Forest Ecosystems. <i>Ecosystems</i> , 2023, 26, 1411-1427.	1.6	1
793	Genomic determination of breeding systems and trans-specific evolution of <i>HD MAT</i> genes in suilloid fungi. <i>Genetics</i> , 2023, 224, .	1.2	1
794	Soil fertility determines whether ectomycorrhizal fungi accelerate or decelerate decomposition in a temperate forest. <i>New Phytologist</i> , 2023, 239, 325-339.	3.5	7
799	Understanding the Molecular Mechanisms of Orchid Mycorrhizal Symbiosis from Genetic Information. , 2023, , 1-25.		0
820	Signaling in mycorrhizal symbioses. , 2023, , 117-126.		0
838	Impacts of nitrogen deposition on forest mycorrhizal communities. , 2024, , 95-118.		0

#	ARTICLE	IF	CITATIONS
848	Diversity of various symbiotic associations between microbes and host plants. , 2024, , 367-394.		0
855	Masters of Manipulation: How Our Molecular Understanding of Model Symbiotic Fungi and Their Hosts Is Changing the Face of "Mutualism", 2024, , 249-272.		0
862	Impact of Environmental Gases on Mycorrhizal Symbiosis and Its Influence on Ecosystem Functioning Under the Current Climate Change Scenario. , 2024, , 51-76.		0