FranÃ§ois Lutzoni

List of Publications by Year
in descending order

59 papers	5,046 citations	126907 33 h-index	128289 60 g-index
60 all docs	60 docs citations	60 times ranked	4013 citing authors

#	Article	IF	Citations
1	Ecological generalism drives hyperdiversity of secondary metabolite gene clusters in xylarialean endophytes. New Phytologist, 2022, 233, 1317-1330.	7.3	23
2	Community dynamics of soilâ€borne fungal communities along elevation gradients in neotropical and palaeotropical forests. Molecular Ecology, 2022, 31, 2044-2060.	3.9	11
3	Comparative transcriptomics of fungal endophytes in coâ€culture with their moss host Dicranum scoparium reveals fungal trophic lability and moss unchanged to slightly increased growth rates. New Phytologist, 2022, 234, 1832-1847.	7.3	5
4	Phylogenetic structure of specialization: A new approach that integrates partner availability and phylogenetic diversity to quantify biotic specialization in ecological networks. Ecology and Evolution, 2022, 12, e8649.	1.9	6
5	Climate and seasonality drive the richness and composition of tropical fungal endophytes at a landscape scale. Communications Biology, 2021, 4, 313.	4.4	45
6	Exploring syntenic conservation across genomes for phylogenetic studies of organisms subjected to horizontal gene transfers: A case study with Cyanobacteria and cyanolichens. Molecular Phylogenetics and Evolution, 2021, 162, 107100.	2.7	8
7	Cyanolichen microbiome contains novel viruses that encode genes to promote microbial metabolism. ISME Communications, 2021, 1, .	4.2	3
8	Turnover of Lecanoroid Mycobionts and Their Trebouxia Photobionts Along an Elevation Gradient in Bolivia Highlights the Role of Environment in Structuring the Lichen Symbiosis. Frontiers in Microbiology, 2021, 12, 774839.	3.5	16
9	T-BAS Version 2.1: Tree-Based Alignment Selector Toolkit for Evolutionary Placement of DNA Sequences and Viewing Alignments and Specimen Metadata on Curated and Custom Trees. Microbiology Resource Announcements, 2019, 8, .	0.6	35
10	The lichen symbiosis re-viewed through the genomes of Cladonia grayi and its algal partner Asterochloris glomerata. BMC Genomics, 2019, 20, 605.	2.8	98
11	Host availability drives distributions of fungal endophytes in the imperilled boreal realm. Nature Ecology and Evolution, 2019, 3, 1430-1437.	7.8	91
12	Species diversification and phylogenetically constrained symbiont switching generated high modularity in the lichen genus Peltigera. Journal of Ecology, 2019, 107, 1645-1661.	4.0	20
13	Differential gene expression associated with fungal trophic shifts along the senescence gradient of the moss Dicranum scoparium. Environmental Microbiology, 2019, 21, 2273-2289.	3.8	11
14	Molybdenum threshold for ecosystem scale alternative vanadium nitrogenase activity in boreal forests. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24682-24688.	7.1	60
15	Biodiversity assessment of ascomycetes inhabiting Lobariella lichens in Andean cloud forests led to one new family, three new genera and 13 new species of lichenicolous fungi. Plant and Fungal Systematics, 2019, 64, 283-344.	0.5	30
16	<scp>RNA</scp>â€based analyses reveal fungal communities structured by a senescence gradient in the moss Dicranum scoparium and the presence of putative multiâ€trophic fungi. New Phytologist, 2018, 218, 1597-1611.	7.3	44
17	Contemporaneous radiations of fungi and plants linked to symbiosis. Nature Communications, 2018, 9, 5451.	12.8	189
18	Contrasting Symbiotic Patterns in Two Closely Related Lineages of Trimembered Lichens of the Genus Peltigera. Frontiers in Microbiology, 2018, 9, 2770.	3.5	25

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19	Stable isotope analyses reveal previously unknown trophic mode diversity in the Hymenochaetales. American Journal of Botany, 2018, 105, 1869-1887.	1.7	19
20	Species delimitation at a global scale reveals high species richness with complex biogeography and patterns of symbiont association in Peltigera section Peltigera (lichenized Ascomycota:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	40
21	Bioclimatic factors at an intrabiome scale are more limiting than cyanobiont availability for the lichenâ€forming genus Peltigera. American Journal of Botany, 2018, 105, 1198-1211.	1.7	19
22	Molecular data favours a monogenericPeltulaceae(Lichinomycetes). Lichenologist, 2018, 50, 313-327.	0.8	9
23	Species in section Peltidea (aphthosa group) of the genus Peltigera remain cryptic after molecular phylogenetic revision. Plant and Fungal Systematics, 2018, 63, 45-64.	0.5	12
24	T-BAS: Tree-Based Alignment Selector toolkit for phylogenetic-based placement, alignment downloads and metadata visualization: an example with the Pezizomycotina tree of life. Bioinformatics, 2017, 33, 1160-1168.	4.1	55
25	Conserved genomic collinearity as a source of broadly applicable, fast evolving, markers to resolve species complexes: A case study using the lichen-forming genus Peltigera section Polydactylon. Molecular Phylogenetics and Evolution, 2017, 117, 10-29.	2.7	30
26	Biological nitrogen fixation by alternative nitrogenases in boreal cyanolichens: importance of molybdenum availability and implications for current biological nitrogen fixation estimates. New Phytologist, 2017, 213, 680-689.	7.3	54
27	A Liber Amicorum: Irwin Brodo. Lichenologist, 2016, 48, 343-346.	0.8	1
28	Photobiont associations in co-occurring umbilicate lichens with contrasting modes of reproduction in coastal Norway. Lichenologist, 2016, 48, 545-557.	0.8	13
29	Contributions of North American endophytes to the phylogeny, ecology, and taxonomy of Xylariaceae (Sordariomycetes, Ascomycota). Molecular Phylogenetics and Evolution, 2016, 98, 210-232.	2.7	110
30	Interaction type influences ecological network structure more than local abiotic conditions: evidence from endophytic and endolichenic fungi at a continental scale. Oecologia, 2016, 180, 181-191.	2.0	50
31	Phylogenetic analyses of eurotiomycetous endophytes reveal their close affinities to Chaetothyriales, Eurotiales, and a new order â€“ Phaeomoniellales. Molecular Phylogenetics and Evolution, 2015, 85, 117-130.	2.7	66
32	Determination of elemental baseline using peltigeralean lichens from Northeastern Canada (QuÃ©bec): Initial data collection for long term monitoring of the impact of global climate change on boreal and subarctic area in Canada. Science of the Total Environment, 2015, 533, 1-7.	8.0	26
33	A comparison of the community diversity of foliar fungal endophytes between seedling and adult loblolly pines (Pinus taeda). Fungal Biology, 2015, 119, 917-928.	2.5	79
34	The adaptive radiation of lichen-forming Teloschistaceae is associated with sunscreening pigments and a bark-to-rock substrate shift. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11600-11605.	7.1	77
35	Is vanadium a biometal for boreal cyanolichens?. New Phytologist, 2014, 202, 765-771.	7.3	34
36	A multigene phylogenetic synthesis for the class Lecanoromycetes (Ascomycota): 1307 fungi representing 1139 infrageneric taxa, 317 genera and 66 families. Molecular Phylogenetics and Evolution, 2014, 79, 132-168.	2.7	248

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37	Phylogenetic placement, species delimitation, and cyanobiont identity of endangered aquatic Peltigera species (lichenâ€forming Ascomycota, Lecanoromycetes). American Journal of Botany, 2014, 101, 1141-1156.	1.7	37
38	Lichen-symbiotic cyanobacteria associated withPeltigerahave an alternative vanadium-dependent nitrogen fixation system. European Journal of Phycology, 2014, 49, 11-19.	2.0	50
39	Assessing population structure and host specialization in lichenized cyanobacteria. New Phytologist, 2013, 198, 557-566.	7.3	57
40	Twenty-five cultures of lichenizing fungi available for experimental studies on symbiotic systems. Symbiosis, 2013, 59, 165-171.	2.3	31
41	Phylogenetic study of Diploschistes (lichenâ€“forming Ascomycota: Ostropales: Graphidaceae), based on morphological, chemical, and molecular data. Taxon, 2013, 62, 267-280.	0.7	16
42	Host and geographic structure of endophytic and endolichenic fungi at a continental scale. American Journal of Botany, 2012, 99, 898-914.	1.7	304
43	Hypogymnia phylogeny, including Cavernularia, reveals biogeographic structure. Bryologist, 2011, 114, 392.	0.6	27
44	Revisiting photobiont diversity in the lichen family Verrucariaceae (Ascomycota). European Journal of Phycology, 2011, 46, 399-415.	2.0	148
45	Community Analysis Reveals Close Affinities Between Endophytic and Endolichenic Fungi in Mosses and Lichens. Microbial Ecology, 2010, 60, 340-353.	2.8	191
46	Phylogenetic generic classification of parmelioid lichens (Parmeliaceae, Ascomycota) based on molecular, morphological and chemical evidence. Taxon, 2010, 59, 1735-1753.	0.7	178
47	Generic classification of the Verrucariaceae (Ascomycota) based on molecular and morphological evidence: recent progress and remaining challenges. Taxon, 2009, 58, 184-208.	0.7	88
48	Lichens. Current Biology, 2009, 19, R502-R503.	3.9	62
49	Compatibility and thigmotropism in the lichen symbiosis: A reappraisal. Symbiosis, 2009, 47, 109-115.	2.3	41
50	A microbiotic survey of lichen-associated bacteria reveals a new lineage from the Rhizobiales. Symbiosis, 2009, 49, 163-180.	2.3	201
51	A Phylogenetic Estimation of Trophic Transition Networks for Ascomycetous Fungi: Are Lichens Cradles of Symbiotrophic Fungal Diversification?. Systematic Biology, 2009, 58, 283-297.	5.6	321
52	Phylogenetic relationships and taxonomy of the Leptogium lichenoides group (Collemataceae,) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.7	28
53	Phylogenetic comparison of protein-coding versus ribosomal RNA-coding sequence data: A case study of the Lecanoromycetes (Ascomycota). Molecular Phylogenetics and Evolution, 2007, 44, 412-426.	2.7	144
54	New insights into classification and evolution of the Lecanoromycetes (Pezizomycotina, Ascomycota) from phylogenetic analyses of three ribosomal RNA- and two protein-coding genes. Mycologia, 2006, 98, 1088-1103.	1.9	140

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55	New insights into classification and evolution of the Lecanoromycetes (Pezizomycotina, Ascomycota) from phylogenetic analyses of three ribosomal RNA- and two protein-coding genes. Mycologia, 2006, 98, 1088-1103.	1.9	227
56	Assessing host specialization in symbiotic cyanobacteria associated with four closely related species of the lichen fungusPeltigera. European Journal of Phycology, 2005, 40, 363-378.	2.0	117
57	Assembling the fungal tree of life: progress, classification, and evolution of subcellular traits. American Journal of Botany, 2004, 91, 1446-1480.	1.7	718
58	New Approach to an Old Problem: Incorporating Signal from Gap-Rich Regions of ITS and rDNA Large Subunit into Phylogenetic Analyses to Resolve the Peltigera canina Species Complex. Mycologia, 2003, 95, 1181.	1.9	19
59	Phylogeny of the Gyalectales and Ostropales (Ascomycota, Fungi): among and within order relationships based on nuclear ribosomal RNA small and large subunits. Molecular Phylogenetics and Evolution, 2002, 25, 138-156.	2.7	237