Lucia Muggia

List of Publications by Year
in descending order

76 papers	3,055 citations	159585 30 h-index	175258 52 g-index
77 all docs	77 docs citations	77 times ranked	2337 citing authors

#	Article	IF	Citations
1	Families of Dothideomycetes. Fungal Diversity, 2013, 63, 1-313.	12.3	509
2	Naming and outline of Dothideomycetesâ€“2014 including proposals for the protection or suppression of generic names. Fungal Diversity, 2014, 69, 1-55.	12.3	216
3	Revisiting photobiont diversity in the lichen family Verrucariaceae (Ascomycota). European Journal of Phycology, 2011, 46, 399-415.	2.0	148
4	Polyextremotolerant black fungi: oligotrophism, adaptive potential, and a link to lichen symbioses. Frontiers in Microbiology, 2012, 3, 390.	3.5	94
5	Photobiont selectivity leads to ecological tolerance and evolutionary divergence in a polymorphic complex of lichenized fungi. Annals of Botany, 2014, 114, 463-475.	2.9	94
6	The symbiotic playground of lichen thalli - a highly flexible photobiont association in rock-inhabiting lichens. FEMS Microbiology Ecology, 2013, 85, 313-323.	2.7	87
7	Unexpected associated microalgal diversity in the lichen Ramalina farinacea is uncovered by pyrosequencing analyses. PLoS ONE, 2017, 12, e0175091.	2.5	85
8	New features of desiccation tolerance in the lichen photobiont Trebouxia gelatinosa are revealed by a transcriptomic approach. Plant Molecular Biology, 2016, 91, 319-339.	3.9	69
9	Extremotolerant fungi from alpine rock lichens and their phylogenetic relationships. Fungal Diversity, 2016, 76, 119-142.	12.3	69
10	PLANiTS: a curated sequence reference dataset for plant ITS DNA metabarcoding. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	3.0	68
11	<scp>ITS</scp>1 metabarcoding highlights low specificity of lichen mycobiomes at a local scale. Molecular Ecology, 2017, 26, 4811-4830.	3.9	66
12	Genetic diversity and photobiont associations in selected taxa of the Tephromela atra group (Lecanorales, lichenised Ascomycota). Mycological Progress, 2008, 7, 147-160.	1.4	64
13	Fungal Diversity in Lichens: From Extremotolerance to Interactions with Algae. Life, 2018, 8, 15.	2.4	63
14	DNA metabarcoding uncovers fungal diversity of mixed airborne samples in Italy. PLoS ONE, 2018, 13, e0194489.	2.5	62
15	The complexity of symbiotic interactions influences the ecological amplitude of the host: A case study in Stereocaulon (lichenized Ascomycota). Molecular Ecology, 2018, 27, 3016-3033.	3.9	59
16	Global assessment of genetic variation and phenotypic plasticity in the lichen-forming species Tephromela atra. Fungal Diversity, 2014, 64, 233-251.	12.3	57
17	Photobiont association and genetic diversity of the optionally lichenized fungus Schizoxylon albescens. FEMS Microbiology Ecology, 2011, 75, 255-272.	2.7	52
18	Formally described species woefully underrepresent phylogenetic diversity in the common lichen photobiont genus Trebouxia (Trebouxiophyceae, Chlorophyta): An impetus for developing an integrated taxonomy. Molecular Phylogenetics and Evolution, 2020, 149, 106821.	2.7	51

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19	Alphaproteobacterial communities in geographically distant populations of the lichenCetraria aculeata. FEMS Microbiology Ecology, 2012, 82, 316-325.	2.7	50
20	Morphological and phylogenetic study of algal partners associated with the lichen-forming fungus Tephromela atra from the Mediterranean region. Symbiosis, 2010, 51, 149-160.	2.3	49
21	The Lichen Connections of Black Fungi. Mycopathologia, 2013, 175, 523-535.	3.1	49
22	Effects of Growth Media on the Diversity of Culturable Fungi from Lichens. Molecules, 2017, 22, 824.	3.8	47
23	The sterile microfilamentous lichenized fungi Cystocoleus ebeneus and Racodium rupestre are relatives of plant pathogens and clinically important dothidealean fungi. Mycological Research, 2008, 112, 50-56.	2.5	46
24	ITS2 metabarcoding analysis complements lichen mycobiome diversity data. Mycological Progress, 2018, 17, 1049-1066.	1.4	46
25	The hidden diversity of lichenised Trebouxiophyceae (Chlorophyta). Phycologia, 2018, 57, 503-524.	1.4	45
26	Environmental DNA assessment of airborne plant and fungal seasonal diversity. Science of the Total Environment, 2020, 738, 140249.	8.0	44
27	A re-evaluation of the Chaetothyriales using criteria of comparative biology. Fungal Diversity, 2020, 103, 47-85.	12.3	43
28	Resolving evolutionary relationships in lichen-forming fungi using diverse phylogenomic datasets and analytical approaches. Scientific Reports, 2016, 6, 22262.	3.3	42
29	Convergent evolution of a symbiotic duet: The case of the lichen genus Polychidium (Peltigerales, Ascomycota). American Journal of Botany, 2011, 98, 1647-1656.	1.7	39
30	Metagenomic data reveal diverse fungal and algal communities associated with the lichen symbiosis. Symbiosis, 2020, 82, 133-147.	2.3	34
31	Reproductive and dispersal strategies shape the diversity of mycobiont-photobiont association in Cladonia lichens. Molecular Phylogenetics and Evolution, 2019, 134, 226-237.	2.7	33
32	Localization of bacteria in lichens from Alpine soil crusts by fluorescence in situ hybridization. Applied Soil Ecology, 2013, 68, 20-25.	4.3	31
33	Community Analyses Uncover High Diversity of Lichenicolous Fungi in Alpine Habitats. Microbial Ecology, 2015, 70, 348-360.	2.8	31
34	Phylogenetic placement of some morphologically unusual members of Verrucariales. Mycologia, 2010, 102, 835-846.	1.9	28
35	Large differences in carbohydrate degradation and transport potential among lichen fungal symbionts. Nature Communications, 2022, 13, 2634.	12.8	24
36	Culture studies on the mycobiont isolated from Parmotrema reticulatum (Taylor) Choisy: metabolite production under different conditions. Mycological Progress, 2009, 8, 359-365.	1.4	23

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37	Disentangling the complex of Lichenothelia species from rock communities in the desert. Mycologia, 2015, 107, 1233-1253.	1.9	23
38	Relevance of plant and fungal DNA metabarcoding in aerobiology. Aerobiologia, 2020, 36, 9-23.	1.7	23
39	Thallus Growth Stage and Geographic Origin Shape Microalgal Diversity in Ramalina farinacea Lichen Holobionts. Journal of Phycology, 2021, 57, 975-987.	2.3	23
40	Phylogenetic placement of the lichenicolous, anamorphic genus Lichenodiplis and its connection to Muellerella-like teleomorphs. Fungal Biology, 2015, 119, 1115-1128.	2.5	22
41	Abundance and Extracellular Release of Phytohormones in Aeroâ€terrestrial Microalgae (Trebouxiophyceae, Chlorophyta) As a Potential Chemical Signaling Source 1. Journal of Phycology, 2020, 56, 1295-1307.	2.3	19
42	A standardized approach for co-culturing dothidealean rock-inhabiting fungi and lichen photobionts in vitro. Symbiosis, 2017, 73, 35-44.	2.3	18
43	Genome-scale data resolve ancestral rock-inhabiting lifestyle in Dothideomycetes (Ascomycota). IMA Fungus, 2019, 10, 19.	3.8	17
44	Characterizing the ribosomal tandem repeat and its utility as a DNA barcode in lichen-forming fungi. BMC Evolutionary Biology, 2020, 20, 2.	3.2	16
45	Shed Light in the DaRk LineagES of the Fungal Tree of Lifeâ€"STRES. Life, 2020, 10, 362.	2.4	16
46	Chloroplast morphology and pyrenoid ultrastructural analyses reappraise the diversity of the lichen phycobiont genus Trebouxia (Chlorophyta). Algal Research, 2022, 61, 102561.	4.6	16
47	Fungal composition of lichen thalli assessed by single strand conformation polymorphism. Lichenologist, 2010, 42, 461-473.	0.8	15
48	Reassessing evolutionary relationships in the filamentous cyanolichen genus Spilonema (Peltigerales, Lecanoromycetes). Lichenologist, 2014, 46, 373-388.	0.8	14
49	Integrated eDNA metabarcoding and morphological analyses assess spatio-temporal patterns of airborne fungal spores. Ecological Indicators, 2021, 121, 107032.	6.3	14
50	Macroecological diversification and convergence in a clade of keystone symbionts. FEMS Microbiology Ecology, 2021, 97, .	2.7	14
51	Bacterial communities in an optional lichen symbiosis are determined by substrate, not algal photobionts. FEMS Microbiology Ecology, 2019, 95, .	2.7	13
52	Phylogenetic relationships of rock-inhabiting black fungi belonging to the widespread generaLichenotheliaandSaxomyces. Mycologia, 2019, 111, 127-160.	1.9	13
53	Contrasting Patterns of Climatic Niche Divergence in Trebouxiaâ€"A Clade of Lichen-Forming Algae. Frontiers in Microbiology, 2022, 13, 791546.	3.5	13
54	An Overview of Genomics, Phylogenomics and Proteomics Approaches in Ascomycota. Life, 2020, 10, 356.	2.4	12

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55	Sequence data from isolated lichen-associated melanized fungi enhance delimitation of two new lineages within Chaetothyriomycetidae. Mycological Progress, 2021, 20, 911-927.	1.4	11
56	Photobiont Diversity in Lichen Symbioses From Extreme Environments. Frontiers in Microbiology, 2022, 13, 809804.	3.5	11
57	The next generation fungal diversity researcher. Fungal Biology Reviews, 2017, 31, 124-130.	4.7	10
58	Niches and Adaptations of Polyextremotolerant Black Fungi. Cellular Origin and Life in Extreme Habitats, 2013, , 551-566.	0.3	10
59	Molecular data confirm the position of Flakea papillata in the Verrucariaceae. Bryologist, 2009, 112, 538-543.	0.6	8
60	Schizoxylonas an experimental model for studying interkingdom symbiosis. FEMS Microbiology Ecology, 2016, 92, fiw165.	2.7	8
61	Muellerella, a lichenicolous fungal genus recovered as polyphyletic within Chaetothyriomycetidae (Eurotiomycetes, Ascomycota). Plant and Fungal Systematics, 2019, 64, 367-381.	0.5	8
62	Symbioses of Lichen-Forming Fungi with Trentepohlialean Algae. , 2017, , 85-110.		7
63	Phytohormone release by three isolated lichen mycobionts and the effects of indole-3-acetic acid on their compatible photobionts. Symbiosis, 2020, 82, 95-108.	2.3	7
64	Enhanced culturing techniques for the mycobiont isolated from the lichen Xanthoria parietina. Mycological Progress, 2021, 20, 797-808.	1.4	7
65	Enforced fungal-algal symbioses in alginate spheres. FEMS Microbiology Letters, 2018, 365, .	1.8	6
66	Extremotolerant Black Fungi from Rocks and Lichens. , 2019, , 119-143.		6
67	Cross Taxon Congruence Between Lichens and Vascular Plants in a Riparian Ecosystem. Diversity, 2019, 11, 133.	1.7	6
68	The Lichen Photobiont Trebouxia: Towards and Appreciation of Species Diversity and Molecular Studies. , 2017, , 111-146.		5
69	Molecular analyses uncover the phylogenetic placement of the lichenized hyphomycetous genus Cheiromycina. Mycologia, 2017, 109, 1-13.	1.9	5
70	The beauty and the yeast: can the microalgae Dunaliella form a borderline lichen with Hortaea werneckii?. Symbiosis, 2020, 82, 123-131.	2.3	5
71	Refining the picture: new records to the lichen biota of Italy. MycoKeys, 2021, 82, 97-137.	1.9	4
72	Should we hail the Red King? Evolutionary consequences of a mutualistic lifestyle in genomes of lichenized ascomycetes. Ecology and Evolution, 2022, 12, e8471.	1.9	4

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73	Antarctolichenia onofrii gen. nov. sp. nov. from Antarctic Endolithic Communities Untangles the Evolution of Rock-Inhabiting and Lichenized Fungi in Arthoniomycetes. Journal of Fungi (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.5	3
74	Introduction to the Festschrift dedicated to Professor Eva Barreno. Symbiosis, 2020, 82, 1-2.	2.3	1
75	Invasion at the Edge: The Case of Rosa rugosa (Rosaceae) in Italy. Diversity, 2021, 13, 645.	1.7	1
76	Eva Barreno RodrÃguez at 70: the person and the professional. Symbiosis, 2020, 82, 3-7.	2.3	0