Urmas KÃµljalg

List of Publications by Year
in descending order

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83 papers	21,420 citations	53794 45 h-index	66911 78 g-index
86 all docs	86 docs citations	86 times ranked	17827 citing authors

#	Article	IF	Citations
1	Towards a unified paradigm for sequenceâ€based identification of fungi. Molecular Ecology, 2013, 22, 5271-5277.	3.9	2,997
2	Global diversity and geography of soil fungi. Science, 2014, 346, 1256688.	12.6	2,513
3	The UNITE database for molecular identification of fungi: handling dark taxa and parallel taxonomic classifications. Nucleic Acids Research, 2019, 47, D259-D264.	14.5	2,072
4	A higher-level phylogenetic classification of the Fungi. Mycological Research, 2007, 111, 509-547.	2.5	1,994
5	The UNITE database for molecular identification of fungi â€“ recent updates and future perspectives. New Phytologist, 2010, 186, 281-285.	7.3	1,563
6	UNITE: a database providing webâ€based methods for the molecular identification of ectomycorrhizal fungi. New Phytologist, 2005, 166, 1063-1068.	7.3	912
7	Fungal community analysis by highâ€throughput sequencing of amplified markers â€“ a user's guide. New Phytologist, 2013, 199, 288-299.	7.3	747
8	Taxonomic Reliability of DNA Sequences in Public Sequence Databases: A Fungal Perspective. PLoS ONE, 2006, 1, e59.	2.5	508
9	454 Pyrosequencing and Sanger sequencing of tropical mycorrhizal fungi provide similar results but reveal substantial methodological biases. New Phytologist, 2010, 188, 291-301.	7.3	484
10	High-level classification of the Fungi and a tool for evolutionary ecological analyses. Fungal Diversity, 2018, 90, 135-159.	12.3	450
11	Shotgun metagenomes and multiple primer pair-barcode combinations of amplicons reveal biases in metabarcoding analyses of fungi. MycoKeys, 0, 10, 1-43.	1.9	409
12	FungalTraits: a user-friendly traits database of fungi and fungus-like stramenopiles. Fungal Diversity, 2020, 105, 1-16.	12.3	387
13	Towards global patterns in the diversity and community structure of ectomycorrhizal fungi. Molecular Ecology, 2012, 21, 4160-4170.	3.9	365
14	Strong host preference of ectomycorrhizal fungi in a Tasmanian wet sclerophyll forest as revealed by DNA barcoding and taxonâ€specific primers. New Phytologist, 2008, 180, 479-490.	7.3	362
15	Fine scale distribution of ectomycorrhizal fungi and roots across substrate layers including coarse woody debris in a mixed forest. New Phytologist, 2003, 159, 153-165.	7.3	344
16	The Amsterdam Declaration on Fungal Nomenclature. IMA Fungus, 2011, 2, 105-111.	3.8	320
17	Finding needles in haystacks: linking scientific names, reference specimens and molecular data for Fungi. Database: the Journal of Biological Databases and Curation, 2014, 2014, bau061-bau061.	3.0	272
18	Regional and local patterns of ectomycorrhizal fungal diversity and community structure along an altitudinal gradient in the Hyrcanian forests of northern Iran. New Phytologist, 2012, 193, 465-473.	7.3	256

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19	High phylogenetic diversity among corticioid homobasidiomycetes. Mycological Research, 2004, 108, 983-1002.	2.5	250
20	A Comprehensive, Automatically Updated Fungal ITS Sequence Dataset for Reference-Based Chimera Control in Environmental Sequencing Efforts. Microbes and Environments, 2015, 30, 145-150.	1.6	231
21	PlutoFâ€"a Web Based Workbench for Ecological and Taxonomic Research, with an Online Implementation for Fungal ITS Sequences. Evolutionary Bioinformatics, 2010, 6, EBO.S6271.	1.2	203
22	Biogeography of ectomycorrhizal fungi associated with alders (<scp>A</scp>lnus spp.) in relation to biotic and abiotic variables at the global scale. New Phytologist, 2013, 198, 1239-1249.	7.3	191
23	Parallel evolutionary paths to mycoheterotrophy in understorey Ericaceae and Orchidaceae: ecological evidence for mixotrophy in Pyroleae. Oecologia, 2007, 151, 206-217.	2.0	163
24	Ectomycorrhizal fungi of the Seychelles: diversity patterns and host shifts from the native Vateriopsis seychellarum (Dipterocarpaceae) and Intsia bijuga (Caesalpiniaceae) to the introduced Eucalyptus robusta (Myrtaceae), but not Pinus caribea (Pinaceae). New Phytologist, 2007, 175, 321-333.	7.3	162
25	Five simple guidelines for establishing basic authenticity and reliability of newly generated fungal ITS sequences. MycoKeys, 0, 4, 37-63.	1.9	157
26	Sequence-based classification and identification of Fungi. Mycologia, 2016, 108, 1049-1068.	1.9	154
27	Divergent arbuscular mycorrhizal fungal communities colonize roots of Pulsatilla spp. in boreal Scots pine forest and grassland soils. New Phytologist, 2003, 160, 581-593.	7.3	149
28	Taxonomy based on science is necessary for global conservation. PLoS Biology, 2018, 16, e2005075.	5.6	149
29	Diversity and community structure of ectomycorrhizal fungi in a wooded meadow. Mycological Research, 2006, 110, 734-748.	2.5	137
30	Regional-Scale In-Depth Analysis of Soil Fungal Diversity Reveals Strong pH and Plant Species Effects in Northern Europe. Frontiers in Microbiology, 2020, 11, 1953.	3.5	126
31	Temperature and pH define the realised niche space of arbuscular mycorrhizal fungi. New Phytologist, 2021, 231, 763-776.	7.3	126
32	The distance decay of similarity in communities of ectomycorrhizal fungi in different ecosystems and scales. Journal of Ecology, 2013, 101, 1335-1344.	4.0	124
33	Improving ITS sequence data for identification of plant pathogenic fungi. Fungal Diversity, 2014, 67, 11-19.	12.3	123
34	Enzymatic activities and stable isotope patterns of ectomycorrhizal fungi in relation to phylogeny and exploration types in an afrotropical rain forest. New Phytologist, 2012, 195, 832-843.	7.3	119
35	A single European aspen (Populus tremula) tree individual may potentially harbour dozens of Cenococcum geophilum ITS genotypes and hundreds of species of ectomycorrhizal fungi. FEMS Microbiology Ecology, 2011, 75, 313-320.	2.7	115
36	The Taxon Hypothesis Paradigmâ€"On the Unambiguous Detection and Communication of Taxa. Microorganisms, 2020, 8, 1910.	3.6	114

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37	Forest microsite effects on community composition of ectomycorrhizal fungi on seedlings of Picea abies and Betula pendula. Environmental Microbiology, 2008, 10, 1189-1201.	3.8	110
38	Spatial structure and the effects of host and soil environments on communities of ectomycorrhizal fungi in wooded savannas and rain forests of Continental Africa and Madagascar. Molecular Ecology, 2011, 20, 3071-3080.	3.9	108
39	Temporal patterns of orchid mycorrhizal fungi in meadows and forests as revealed by 454 pyrosequencing. New Phytologist, 2015, 205, 1608-1618.	7.3	96
40	Towards standardization of the description and publication of nextâ€generation sequencing datasets of fungal communities. New Phytologist, 2011, 191, 314-318.	7.3	85
41	Evolution of nutritional modes of Ceratobasidiaceae (Cantharellales, Basidiomycota) as revealed from publicly available ITS sequences. Fungal Ecology, 2013, 6, 256-268.	1.6	81
42	Structure and function of the soil microbiome underlying N2O emissions from global wetlands. Nature Communications, 2022, 13, 1430.	12.8	72
43	Rangewide analysis of fungal associations in the fully mycoheterotrophic Corallorhiza striata complex (Orchidaceae) reveals extreme specificity on ectomycorrhizal Tomentella (Thelephoraceae) across North America. American Journal of Botany, 2010, 97, 628-643.	1.7	63
44	Ectomycorrhizal fungi of exotic pine plantations in relation to native host trees in Iran: evidence of host range expansion by local symbionts to distantly related host taxa. Mycorrhiza, 2013, 23, 11-19.	2.8	63
45	Global biogeography of the ectomycorrhizal /sebacina lineage (<scp>F</scp>ungi,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 T 2014, 23, 4168-4183.	3.9	58
46	Unlocking biodiversity data: Prioritization and filling the gaps in biodiversity observation data in Europe. Biological Conservation, 2018, 221, 78-85.	4.1	55
47	The need for an integrated biodiversity policy support process â€“ Building the European contribution to a global Biodiversity Observation Network (EU BON). Nature Conservation, 0, 6, 49-65.	0.0	54
48	Diversity and community composition of ectomycorrhizal fungi in a dry deciduous dipterocarp forest in Thailand. Biodiversity and Conservation, 2012, 21, 2287-2298.	2.6	53
49	Tidying Up International Nucleotide Sequence Databases: Ecological, Geographical and Sequence Quality Annotation of ITS Sequences of Mycorrhizal Fungi. PLoS ONE, 2011, 6, e24940.	2.5	51
50	Considerations and consequences of allowing DNA sequence data as types of fungal taxa. IMA Fungus, 2018, 9, 167-175.	3.8	45
51	Fungal associates of Pyrola rotundifolia, a mixotrophic Ericaceae, from two Estonian boreal forests. Mycorrhiza, 2008, 19, 15-25.	2.8	43
52	Response to Comment on â€œGlobal diversity and geography of soil fungiâ€. Science, 2015, 349, 936-936.	12.6	43
53	The Global Soil Mycobiome consortium dataset for boosting fungal diversity research. Fungal Diversity, 2021, 111, 573-588.	12.3	42
54	Global biogeography of Alnusâ€associated Frankia actinobacteria. New Phytologist, 2014, 204, 979-988.	7.3	41

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55	Establishment of ectomycorrhizal fungal community on isolated Nothofagus cunninghamii seedlings regenerating on dead wood in Australian wet temperate forests: does fruit-body type matter?. Mycorrhiza, 2009, 19, 403-416.	2.8	40
56	Fruiting body-guided molecular identification of root-tip mantle mycelia provides strong indications of ectomycorrhizal associations in two species of Sistotrema (Basidiomycota). Mycological Research, 2006, 110, 1426-1432.	2.5	38
57	Monitoring of Biological Diversity: a Common-Ground Approach. Conservation Biology, 2007, 21, 313-317.	4.7	38
58	Mycorrhizal symbionts ofPisonia grandisandP. sechellarumin Seychelles: identification of mycorrhizal fungi and description of newTomentellaspecies. Mycologia, 2010, 102, 522-533.	1.9	38
59	Standardizing metadata and taxonomic identification in metabarcoding studies. GigaScience, 2015, 4, 34.	6.4	35
60	Taxonomic annotation of public fungal ITS sequences from the built environment â€“ a report from an April 10â€“11, 2017 workshop (Aberdeen, UK). MycoKeys, 2018, 28, 65-82.	1.9	33
61	ITS rDNA sequence-based phylogenetic analysis of Tomentellopsis species from boreal and temperate forests, and the identification of pink-type ectomycorrhizas. Mycological Progress, 2002, 1, 81-92.	1.4	30
62	The phylogeny and taxonomy of genera Cystoderma and Cystodermella (Agaricales) based on nuclear ITS and LSU sequences. Mycological Progress, 2009, 8, 59-73.	1.4	28
63	Stable isotope analysis, field observations and synthesis experiments suggest that Odontia is a non-mycorrhizal sister genus of Tomentella and Thelephora. Fungal Ecology, 2014, 11, 80-90.	1.6	21
64	Local-scale spatial structure and community composition of orchid mycorrhizal fungi in semi-natural grasslands. Mycorrhiza, 2017, 27, 355-367.	2.8	21
65	Genomics and metagenomics technologies to recover ribosomal DNA and single-copy genes from old fruit-body and ectomycorrhiza specimens. MycoKeys, 0, 13, 1-20.	1.9	21
66	Studies in African thelephoroid fungi: 1. Tomentella capitata and Tomentella brunneocystidia, two new species from Benin (West Africa) with capitate cystidia. Mycological Progress, 2007, 6, 7-18.	1.4	16
67	Global macroecology of nitrogenâ€fixing plants. Global Ecology and Biogeography, 2021, 30, 514-526.	5.8	16
68	Annotating public fungal ITS sequences from the built environment according to the MIxS-Built Environment standard â€“ a report from a May 23-24, 2016 workshop (Gothenburg, Sweden). MycoKeys, 0, 16, 1-15.	1.9	16
69	Arbuscular mycorrhizal fungi associating with roots of Alnus and Rubus in Europe and the Middle East. Fungal Ecology, 2016, 24, 27-34.	1.6	12
70	A new species of Lenzitopsis (Thelephorales, Basidiomycota) and its phylogenetic placement. Mycoscience, 2013, 54, 87-92.	0.8	11
71	Biogeography and Specificity of Ectomycorrhizal Fungi of Coccoloba uvifera. Ecological Studies, 2017, , 345-359.	1.2	11
72	Reassessment of the generic limits for Hydnellum and Sarcodon (Thelephorales, Basidiomycota). MycoKeys, 2019, 54, 31-47.	1.9	11

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73	The next generation fungal diversity researcher. Fungal Biology Reviews, 2017, 31, 124-130.	4.7	10
74	Tomentella brunneoincrustata, the first described species of the Pisonieae-associated Neotropical Tomentella clade, and phylogenetic analysis of the genus in Mexico. Mycological Progress, 2016, 15, 1.	1.4	9
75	A note on the incidence of reverse complementary fungal ITS sequences in the public sequence databases and a software tool for their detection and reorientation. Mycoscience, 2011, 52, 278-282.	0.8	7
76	Phylogenetic relationships in Hypomyces and allied genera, with emphasis on species growing on wood-decaying homobasidiomycetes. Canadian Journal of Botany, 2000, 77, 1756-1768.	1.1	6
77	Polyozellus multiplex(Thelephorales) is a species complex containing four new species. Mycologia, 2017, 109, 975-992.	1.9	6
78	The ectomycorrhizae of Pseudotomentella humicola on Picea abies. Nova Hedwigia, 2007, 84, 429-440.	0.4	5
79	Solving the taxonomic identity of Pseudotomentella tristis s.l. (Thelephorales, Basidiomycota) â€“ a multi-gene phylogeny and taxonomic review, integrating ecological and geographical data. MycoKeys, 2019, 50, 1-77.	1.9	5
80	Aphyllophoroid fungi in insular woodlands of eastern Ukraine. Biodiversity Data Journal, 2017, 5, e22426.	0.8	4
81	<I>Tomentellopsis pulchella</I> sp. nov. from St. Vitale Pine Forest (Ravenna, Italy). Mycotaxon, 2009, 107, 53-60.	0.3	2
82	Molecular Techniques in Mycological Studies and Sequence Data Curating: Quality Control and Challenges. Fungal Biology, 2016, , 47-64.	0.6	2
83	Real gaps in European bird monitoring: A reply to VoÅ™ÃÅ¡ek et al.. Biological Conservation, 2018, 225, 247-248.	4.1	0