

Urmas KÅuljalg

List of Publications by Year in descending order

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Version: 2024-02-01

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	Structure and function of the soil microbiome underlying N ₂ O emissions from global wetlands. <i>Nature Communications</i> , 2022, 13, 1430.	12.8	72
2	Global macroecology of nitrogen-fixing plants. <i>Global Ecology and Biogeography</i> , 2021, 30, 514-526.	5.8	16
3	Temperature and pH define the realised niche space of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2021, 231, 763-776.	7.3	126
4	The Global Soil Mycobiome consortium dataset for boosting fungal diversity research. <i>Fungal Diversity</i> , 2021, 111, 573-588.	12.3	42
5	Regional-Scale In-Depth Analysis of Soil Fungal Diversity Reveals Strong pH and Plant Species Effects in Northern Europe. <i>Frontiers in Microbiology</i> , 2020, 11, 1953.	3.5	126
6	The Taxon Hypothesis Paradigm – On the Unambiguous Detection and Communication of Taxa. <i>Microorganisms</i> , 2020, 8, 1910.	3.6	114
7	FungalTraits: a user-friendly traits database of fungi and fungus-like stramenopiles. <i>Fungal Diversity</i> , 2020, 105, 1-16.	12.3	387
8	The UNITE database for molecular identification of fungi: handling dark taxa and parallel taxonomic classifications. <i>Nucleic Acids Research</i> , 2019, 47, D259-D264.	14.5	2,072
9	Solving the taxonomic identity of <i>Pseudotomentella tristis</i> s.l. (Thelephorales, Basidiomycota) – a multi-gene phylogeny and taxonomic review, integrating ecological and geographical data. <i>MycKeys</i> , 2019, 50, 1-77.	1.9	5
10	Reassessment of the generic limits for <i>Hydnellum</i> and <i>Sarcodon</i> (Thelephorales, Basidiomycota). <i>MycKeys</i> , 2019, 54, 31-47.	1.9	11
11	Unlocking biodiversity data: Prioritization and filling the gaps in biodiversity observation data in Europe. <i>Biological Conservation</i> , 2018, 221, 78-85.	4.1	55
12	High-level classification of the Fungi and a tool for evolutionary ecological analyses. <i>Fungal Diversity</i> , 2018, 90, 135-159.	12.3	450
13	Real gaps in European bird monitoring: A reply to Voříšek et al.. <i>Biological Conservation</i> , 2018, 225, 247-248.	4.1	0
14	Taxonomic annotation of public fungal ITS sequences from the built environment – a report from an April 10-11, 2017 workshop (Aberdeen, UK). <i>MycKeys</i> , 2018, 28, 65-82.	1.9	33
15	Considerations and consequences of allowing DNA sequence data as types of fungal taxa. <i>IMA Fungus</i> , 2018, 9, 167-175.	3.8	45
16	Taxonomy based on science is necessary for global conservation. <i>PLoS Biology</i> , 2018, 16, e2005075.	5.6	149
17	Local-scale spatial structure and community composition of orchid mycorrhizal fungi in semi-natural grasslands. <i>Mycorrhiza</i> , 2017, 27, 355-367.	2.8	21
18	The next generation fungal diversity researcher. <i>Fungal Biology Reviews</i> , 2017, 31, 124-130.	4.7	10

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19	Polyozellus multiplex(Thelephorales) is a species complex containing four new species. Mycologia, 2017, 109, 975-992.	1.9	6
20	Biogeography and Specificity of Ectomycorrhizal Fungi of Coccoloba uvifera. Ecological Studies, 2017, , 345-359.	1.2	11
21	Aphylophoroid fungi in insular woodlands of eastern Ukraine. Biodiversity Data Journal, 2017, 5, e22426.	0.8	4
22	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
23	Molecular Techniques in Mycological Studies and Sequence Data Curating: Quality Control and Challenges. Fungal Biology, 2016, , 47-64.	0.6	2
24	Tomentella brunneoincrustedata, 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
25	Sequence-based classification and identification of Fungi. Mycologia, 2016, 108, 1049-1068.	1.9	154
26	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
27	Temporal patterns of orchid mycorrhizal fungi in meadows and forests as revealed by 454 pyrosequencing. New Phytologist, 2015, 205, 1608-1618.	7.3	96
28	Standardizing metadata and taxonomic identification in metabarcoding studies. GigaScience, 2015, 4, 34.	6.4	35
29	Response to Comment on "Global diversity and geography of soil fungi". Science, 2015, 349, 936-936.	12.6	43
30	Global diversity and geography of soil fungi. Science, 2014, 346, 1256688.	12.6	2,513
31	Global biogeography of <i>Alnus</i> -associated <i>Frankia</i> actinobacteria. New Phytologist, 2014, 204, 979-988.	7.3	41
32	Improving ITS sequence data for identification of plant pathogenic fungi. Fungal Diversity, 2014, 67, 11-19.	12.3	123
33	Global biogeography of the ectomycorrhizal /sebacina lineage (<sc>F</sc>ungi,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 2014, 23, 4168-4183.	3.9	58
34	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
35	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
36	Towards a unified paradigm for sequence-based identification of fungi. Molecular Ecology, 2013, 22, 5271-5277.	3.9	2,997

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37	The distance decay of similarity in communities of ectomycorrhizal fungi in different ecosystems and scales. <i>Journal of Ecology</i> , 2013, 101, 1335-1344.	4.0	124
38	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. <i>Mycorrhiza</i> , 2013, 23, 11-19.	2.8	63
39	A new species of <i>Lenzites</i> (Thelephorales, Basidiomycota) and its phylogenetic placement. <i>Mycoscience</i> , 2013, 54, 87-92.	0.8	11
40	Biogeography of ectomycorrhizal fungi associated with alders (<i>Alnus</i> spp.) in relation to biotic and abiotic variables at the global scale. <i>New Phytologist</i> , 2013, 198, 1239-1249.	7.3	191
41	Evolution of nutritional modes of Ceratobasidiaceae (Cantharellales, Basidiomycota) as revealed from publicly available ITS sequences. <i>Fungal Ecology</i> , 2013, 6, 256-268.	1.6	81
42	Fungal community analysis by high-throughput sequencing of amplified markers – a user's guide. <i>New Phytologist</i> , 2013, 199, 288-299.	7.3	747
43	Diversity and community composition of ectomycorrhizal fungi in a dry deciduous dipterocarp forest in Thailand. <i>Biodiversity and Conservation</i> , 2012, 21, 2287-2298.	2.6	53
44	Enzymatic activities and stable isotope patterns of ectomycorrhizal fungi in relation to phylogeny and exploration types in an afro-tropical rain forest. <i>New Phytologist</i> , 2012, 195, 832-843.	7.3	119
45	Regional and local patterns of ectomycorrhizal fungal diversity and community structure along an altitudinal gradient in the Hyrcanian forests of northern Iran. <i>New Phytologist</i> , 2012, 193, 465-473.	7.3	256
46	Towards global patterns in the diversity and community structure of ectomycorrhizal fungi. <i>Molecular Ecology</i> , 2012, 21, 4160-4170.	3.9	365
47	Tidying Up International Nucleotide Sequence Databases: Ecological, Geographical and Sequence Quality Annotation of ITS Sequences of Mycorrhizal Fungi. <i>PLoS ONE</i> , 2011, 6, e24940.	2.5	51
48	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. <i>Molecular Ecology</i> , 2011, 20, 3071-3080.	3.9	108
49	Towards standardization of the description and publication of next-generation sequencing datasets of fungal communities. <i>New Phytologist</i> , 2011, 191, 314-318.	7.3	85
50	A single European aspen (<i>Populus tremula</i>) tree individual may potentially harbour dozens of <i>Cenococcum geophilum</i> ITS genotypes and hundreds of species of ectomycorrhizal fungi. <i>FEMS Microbiology Ecology</i> , 2011, 75, 313-320.	2.7	115
51	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. <i>Mycoscience</i> , 2011, 52, 278-282.	0.8	7
52	The Amsterdam Declaration on Fungal Nomenclature. <i>IMA Fungus</i> , 2011, 2, 105-111.	3.8	320
53	The UNITE database for molecular identification of fungi – recent updates and future perspectives. <i>New Phytologist</i> , 2010, 186, 281-285.	7.3	1,563
54	454 Pyrosequencing and Sanger sequencing of tropical mycorrhizal fungi provide similar results but reveal substantial methodological biases. <i>New Phytologist</i> , 2010, 188, 291-301.	7.3	484

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55	Rangewide analysis of fungal associations in the fully mycoheterotrophic <i>Corallorhiza striata</i> complex (Orchidaceae) reveals extreme specificity on ectomycorrhizal <i>Tomentella</i> (Thelephoraceae) across North America. <i>American Journal of Botany</i> , 2010, 97, 628-643.	1.7	63
56	PlutoFªa Web Based Workbench for Ecological and Taxonomic Research, with an Online Implementation for Fungal ITS Sequences. <i>Evolutionary Bioinformatics</i> , 2010, 6, EBO.S6271.	1.2	203
57	Mycorrhizal symbionts of <i>Pisonia grandis</i> and <i>P. sechellarum</i> in Seychelles: identification of mycorrhizal fungi and description of new <i>Tomentella</i> species. <i>Mycologia</i> , 2010, 102, 522-533.	1.9	38
58	Establishment of ectomycorrhizal fungal community on isolated <i>Nothofagus cunninghamii</i> seedlings regenerating on dead wood in Australian wet temperate forests: does fruit-body type matter?. <i>Mycorrhiza</i> , 2009, 19, 403-416.	2.8	40
59	The phylogeny and taxonomy of genera <i>Cystoderma</i> and <i>Cystodermella</i> (Agaricales) based on nuclear ITS and LSU sequences. <i>Mycological Progress</i> , 2009, 8, 59-73.	1.4	28
60	<i>Tomentellopsis pulchella</i> sp. nov. from St. Vitale Pine Forest (Ravenna, Italy). <i>Mycotaxon</i> , 2009, 107, 53-60.	0.3	2
61	Fungal associates of <i>Pyrola rotundifolia</i> , a mixotrophic Ericaceae, from two Estonian boreal forests. <i>Mycorrhiza</i> , 2008, 19, 15-25.	2.8	43
62	Strong host preference of ectomycorrhizal fungi in a Tasmanian wet sclerophyll forest as revealed by DNA barcoding and taxon-specific primers. <i>New Phytologist</i> , 2008, 180, 479-490.	7.3	362
63	Forest microsite effects on community composition of ectomycorrhizal fungi on seedlings of <i>Picea abies</i> and <i>Betula pendula</i> . <i>Environmental Microbiology</i> , 2008, 10, 1189-1201.	3.8	110
64	The ectomycorrhizae of <i>Pseudotomentella humicola</i> on <i>Picea abies</i> . <i>Nova Hedwigia</i> , 2007, 84, 429-440.	0.4	5
65	Ectomycorrhizal fungi of the Seychelles: diversity patterns and host shifts from the native <i>Vateriopsis sechellarum</i> (Dipterocarpaceae) and <i>Intsia bijuga</i> (Caesalpiniaceae) to the introduced <i>Eucalyptus robusta</i> (Myrtaceae), but not <i>Pinus caribea</i> (Pinaceae). <i>New Phytologist</i> , 2007, 175, 321-333.	7.3	162
66	Monitoring of Biological Diversity: a Common-Ground Approach. <i>Conservation Biology</i> , 2007, 21, 313-317.	4.7	38
67	A higher-level phylogenetic classification of the Fungi. <i>Mycological Research</i> , 2007, 111, 509-547.	2.5	1,994
68	Parallel evolutionary paths to mycoheterotrophy in understory Ericaceae and Orchidaceae: ecological evidence for mixotrophy in Pyroleae. <i>Oecologia</i> , 2007, 151, 206-217.	2.0	163
69	Studies in African thelephoroid fungi: 1. <i>Tomentella capitata</i> and <i>Tomentella brunneocystidia</i> , two new species from Benin (West Africa) with capitate cystidia. <i>Mycological Progress</i> , 2007, 6, 7-18.	1.4	16
70	Diversity and community structure of ectomycorrhizal fungi in a wooded meadow. <i>Mycological Research</i> , 2006, 110, 734-748.	2.5	137
71	Fruiting body-guided molecular identification of root-tip mantle mycelia provides strong indications of ectomycorrhizal associations in two species of <i>Sistotrema</i> (Basidiomycota). <i>Mycological Research</i> , 2006, 110, 1426-1432.	2.5	38
72	Taxonomic Reliability of DNA Sequences in Public Sequence Databases: A Fungal Perspective. <i>PLoS ONE</i> , 2006, 1, e59.	2.5	508

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73	UNITE: a database providing web-based methods for the molecular identification of ectomycorrhizal fungi. <i>New Phytologist</i> , 2005, 166, 1063-1068.	7.3	912
74	High phylogenetic diversity among corticioid homobasidiomycetes. <i>Mycological Research</i> , 2004, 108, 983-1002.	2.5	250
75	Fine scale distribution of ectomycorrhizal fungi and roots across substrate layers including coarse woody debris in a mixed forest. <i>New Phytologist</i> , 2003, 159, 153-165.	7.3	344
76	Divergent arbuscular mycorrhizal fungal communities colonize roots of <i>Pulsatilla</i> spp. in boreal Scots pine forest and grassland soils. <i>New Phytologist</i> , 2003, 160, 581-593.	7.3	149
77	ITS rDNA sequence-based phylogenetic analysis of <i>Tomentellopsis</i> species from boreal and temperate forests, and the identification of pink-type ectomycorrhizas. <i>Mycological Progress</i> , 2002, 1, 81-92.	1.4	30
78	Phylogenetic relationships in <i>Hypomyces</i> and allied genera, with emphasis on species growing on wood-decaying homobasidiomycetes. <i>Canadian Journal of Botany</i> , 2000, 77, 1756-1768.	1.1	6
79	Five simple guidelines for establishing basic authenticity and reliability of newly generated fungal ITS sequences. <i>MycKeys</i> , 0, 4, 37-63.	1.9	157
80	Shotgun metagenomes and multiple primer pair-barcode combinations of amplicons reveal biases in metabarcoding analyses of fungi. <i>MycKeys</i> , 0, 10, 1-43.	1.9	409
81	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.	1.9	21
82	Annotating public fungal ITS sequences from the built environment according to the MixS-Built Environment standard – a report from a May 23-24, 2016 workshop (Gothenburg, Sweden). <i>MycKeys</i> , 0, 16, 1-15.	1.9	16
83	The need for an integrated biodiversity policy support process – Building the European contribution to a global Biodiversity Observation Network (EU BON). <i>Nature Conservation</i> , 0, 6, 49-65.	0.0	54