

Rasmus Kjällner

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

9,036
citations

134610

34
h-index

129628

63
g-index

67
all docs

67
docs citations

67
times ranked

12823
citing authors

#	ARTICLE	IF	CITATIONS
1	The UNITE database for molecular identification of fungi – recent updates and future perspectives. <i>New Phytologist</i> , 2010, 186, 281-285.	3.5	1,563
2	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
3	UNITE: a database providing web-based methods for the molecular identification of ectomycorrhizal fungi. <i>New Phytologist</i> , 2005, 166, 1063-1068.	3.5	912
4	Fungal community analysis by high-throughput sequencing of amplified markers – a user's guide. <i>New Phytologist</i> , 2013, 199, 288-299.	3.5	747
5	High functional diversity within species of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2004, 164, 357-364.	3.5	512
6	Algorithm for post-clustering curation of DNA amplicon data yields reliable biodiversity estimates. <i>Nature Communications</i> , 2017, 8, 1188.	5.8	451
7	FungalTraits: a user-friendly traits database of fungi and fungus-like stramenopiles. <i>Fungal Diversity</i> , 2020, 105, 1-16.	4.7	387
8	Towards global patterns in the diversity and community structure of ectomycorrhizal fungi. <i>Molecular Ecology</i> , 2012, 21, 4160-4170.	2.0	365
9	The production and turnover of extramatrical mycelium of ectomycorrhizal fungi in forest soils: role in carbon cycling. <i>Plant and Soil</i> , 2013, 366, 1-27.	1.8	262
10	Molecular and morphological diversity of pezizalean ectomycorrhiza. <i>New Phytologist</i> , 2006, 170, 581-596.	3.5	208
11	Evaluation of methods to estimate production, biomass and turnover of ectomycorrhizal mycelium in forest soils – A review. <i>Soil Biology and Biochemistry</i> , 2013, 57, 1034-1047.	4.2	207
12	Dramatic changes in ectomycorrhizal community composition, root tip abundance and mycelial production along a stand-scale nitrogen deposition gradient. <i>New Phytologist</i> , 2012, 194, 278-286.	3.5	149
13	454-sequencing reveals stochastic local reassembly and high disturbance tolerance within arbuscular mycorrhizal fungal communities. <i>Journal of Ecology</i> , 2012, 100, 151-160.	1.9	131
14	Disproportionate abundance between ectomycorrhizal root tips and their associated mycelia. <i>FEMS Microbiology Ecology</i> , 2006, 58, 214-224.	1.3	129
15	The distance decay of similarity in communities of ectomycorrhizal fungi in different ecosystems and scales. <i>Journal of Ecology</i> , 2013, 101, 1335-1344.	1.9	124
16	Title is missing!. <i>Plant and Soil</i> , 2000, 226, 189-196.	1.8	116
17	Identification of mycorrhizal fungi from single pellets of <i>Dactylorhiza majalis</i> (Orchidaceae) using single-strand conformation polymorphism and mitochondrial ribosomal large subunit DNA sequences. <i>Molecular Ecology</i> , 2001, 10, 2089-2093.	2.0	97
18	Colonisation and molecular diversity of arbuscular mycorrhizal fungi in the aquatic plants <i>Littorella uniflora</i> and <i>Lobelia dortmanna</i> in southern Sweden. <i>Mycological Research</i> , 2004, 108, 616-625.	2.5	86

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19	Towards standardization of the description and publication of next-generation sequencing datasets of fungal communities. <i>New Phytologist</i> , 2011, 191, 314-318.	3.5	85
20	Effect of phosphate and the arbuscular mycorrhizal fungus <i>Glomus intraradices</i> on disease severity of root rot of peas (<i>Pisum sativum</i>) caused by <i>Aphanomyces euteiches</i> . <i>Mycorrhiza</i> , 1998, 8, 169-174.	1.3	81
21	Molecular phylogenetics and delimitation of species in <i>Cortinarius</i> section <i>Calochroi</i> (Basidiomycota). <i>Tj ETQq1 1 0,784314 rgBT /Ove</i>	1.2	80
22	Wood Ash Induced pH Changes Strongly Affect Soil Bacterial Numbers and Community Composition. <i>Frontiers in Microbiology</i> , 2017, 8, 1400.	1.5	74
23	Using community trait-distributions to assign microbial responses to pH changes and Cd in forest soils treated with wood ash. <i>Soil Biology and Biochemistry</i> , 2017, 112, 153-164.	4.2	73
24	Interactions between indigenous arbuscular mycorrhizal fungi and <i>Aphanomyces euteiches</i> in field-grown pea. <i>Mycorrhiza</i> , 2002, 12, 7-12.	1.3	66
25	Taxi drivers: the role of animals in transporting mycorrhizal fungi. <i>Mycorrhiza</i> , 2019, 29, 413-434.	1.3	63
26	<i>Rhizopogon</i> spore bank communities within and among California pine forests. <i>Mycologia</i> , 2003, 95, 603-613.	0.8	61
27	Effects of fungicides on arbuscular mycorrhizal fungi: differential responses in alkaline phosphatase activity of external and internal hyphae. <i>Biology and Fertility of Soils</i> , 2000, 31, 361-365.	2.3	56
28	Risk assessment of replacing conventional P fertilizers with biomass ash: Residual effects on plant yield, nutrition, cadmium accumulation and mycorrhizal status. <i>Science of the Total Environment</i> , 2017, 575, 1168-1176.	3.9	55
29	Man against machine: Do fungal fruitbodies and eDNA give similar biodiversity assessments across broad environmental gradients?. <i>Biological Conservation</i> , 2019, 233, 201-212.	1.9	55
30	Molecular diversity of glomalean (arbuscular mycorrhizal) fungi determined as distinct <i>Glomus</i> specific DNA sequences from roots of field grown peas fungi. <i>Mycological Research</i> , 2001, 105, 1027-1032.	2.5	54
31	Endoproteolytic activities in pea roots inoculated with the arbuscular mycorrhizal fungus <i>Glomus mosseae</i> and/or <i>Aphanomyces euteiches</i> in relation to bioprotection. <i>New Phytologist</i> , 1999, 142, 517-529.	3.5	51
32	<i>Rhizopogon</i> Spore Bank Communities within and among California Pine Forests. <i>Mycologia</i> , 2003, 95, 603.	0.8	45
33	Belowground ectomycorrhizal fungal communities respond to liming in three southern Swedish coniferous forest stands. <i>Forest Ecology and Management</i> , 2009, 257, 2217-2225.	1.4	43
34	Co-existing ericaceous plant species in a subarctic mire community share fungal root endophytes. <i>Fungal Ecology</i> , 2010, 3, 205-214.	0.7	42
35	A three-gene phylogeny of the <i>Mycena pura</i> complex reveals 11 phylogenetic species and shows ITS to be unreliable for species identification. <i>Fungal Biology</i> , 2013, 117, 764-775.	1.1	38
36	The relative importance of the bacterial pathway and soil inorganic nitrogen increase across an extreme wood-ash application gradient. <i>GCB Bioenergy</i> , 2018, 10, 320-334.	2.5	35

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37	Organic amendments increase phylogenetic diversity of arbuscular mycorrhizal fungi in acid soil contaminated by trace elements. <i>Mycorrhiza</i> , 2016, 26, 575-585.	1.3	32
38	Ectomycorrhizal Fungal Communities and Their Functional Traits Mediate Plant-Soil Interactions in Trace Element Contaminated Soils. <i>Frontiers in Plant Science</i> , 2018, 9, 1682.	1.7	31
39	Enzymatic Activity of the Mycelium Compared with Oospore Development During Infection of Pea Roots by <i>Aphanomyces euteiches</i> . <i>Phytopathology</i> , 1998, 88, 992-996.	1.1	30
40	Total RNA sequencing reveals multilevel microbial community changes and functional responses to wood ash application in agricultural and forest soil. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	30
41	The presence of the arbuscular mycorrhizal fungus <i>Glomus intraradices</i> influences enzymatic activities of the root pathogen <i>Aphanomyces euteiches</i> in pea roots. <i>Mycorrhiza</i> , 1997, 6, 487-491.	1.3	27
42	Extension of Plant Phenotypes by the Foliar Microbiome. <i>Annual Review of Plant Biology</i> , 2021, 72, 823-846.	8.6	27
43	Differences in arbuscular mycorrhizal colonisation influence cadmium uptake in plants. <i>Environmental and Experimental Botany</i> , 2019, 162, 223-229.	2.0	26
44	Soil fungal diversity and functionality are driven by plant species used in phytoremediation. <i>Soil Biology and Biochemistry</i> , 2021, 153, 108102.	4.2	25
45	Suppression of arbuscular mycorrhizal fungal activity in a diverse collection of non-cultivated soils. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	23
46	Uniquity: A general metric for biotic uniqueness of sites. <i>Biological Conservation</i> , 2018, 225, 98-105.	1.9	22
47	Population genomics of an outbreak of the potato late blight pathogen, <i>Phytophthora infestans</i> , reveals both clonality and high genotypic diversity. <i>Molecular Plant Pathology</i> , 2019, 20, 1134-1146.	2.0	21
48	A comparison between ITS phylogenetic relationships and morphological species recognition within <i>Mycena</i> sect. <i>Calodontes</i> in Northern Europe. <i>Mycological Progress</i> , 2010, 9, 395-405.	0.5	19
49	Cultivated and fallow fields harbor distinct communities of Basidiomycota. <i>Fungal Ecology</i> , 2014, 9, 43-51.	0.7	19
50	Toward a functional-first framework to make soil microbial ecology predictive. <i>Ecology</i> , 2022, 103, e03594.	1.5	19
51	Functional diversity of ectomycorrhizal fungal communities is reduced by trace element contamination. <i>Soil Biology and Biochemistry</i> , 2018, 121, 202-211.	4.2	17
52	Organic enrichment of sediments reduces arbuscular mycorrhizal fungi in oligotrophic lake plants. <i>Freshwater Biology</i> , 2013, 58, 769-779.	1.2	16
53	The complexity of wood ash fertilization disentangled: Effects on soil pH, nutrient status, plant growth and cadmium accumulation. <i>Environmental and Experimental Botany</i> , 2021, 185, 104424.	2.0	15
54	Application of wood ash leads to strong vertical gradients in soil pH changing prokaryotic community structure in forest top soil. <i>Scientific Reports</i> , 2021, 11, 742.	1.6	14

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55	Wood ash effects on growth and cadmium uptake in <i>Deschampsia flexuosa</i> (Wavy hair-grass). <i>Environmental Pollution</i> , 2019, 249, 886-893.	3.7	13
56	Ameliorative Effects of <i>Trichoderma harzianum</i> and Rhizosphere Soil Microbes on Cadmium Biosorption of Barley (<i>Hordeum vulgare</i> L.) in Cd-Polluted Soil. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 527-539.	1.7	13
57	Tropical forest type influences community assembly processes in arbuscular mycorrhizal fungi. <i>Journal of Biogeography</i> , 2020, 47, 434-444.	1.4	10
58	Wood ash application in a managed Norway spruce plantation did not affect ectomycorrhizal diversity or N retention capacity. <i>Fungal Ecology</i> , 2019, 39, 1-11.	0.7	9
59	Exploring evolutionary theories of plant defence investment using field populations of the deadly carrot. <i>Annals of Botany</i> , 2020, 125, 737-750.	1.4	7
60	Bacteria Respond Stronger Than Fungi Across a Steep Wood Ash-Driven pH Gradient. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	1.0	7
61	Ectomycorrhizal Fungal Responses to Forest Liming and Wood Ash Addition: Review and Meta-analysis. , 2017, , 223-252.		4
62	Mycorrhizal features and leaf traits covary at the community level during primary succession. <i>Fungal Ecology</i> , 2019, 40, 4-11.	0.7	3
63	Arbuscular mycorrhizal fungal communities of pristine rainforests and adjacent sugarcane fields recruit from different species pools. <i>Soil Biology and Biochemistry</i> , 2022, 167, 108585.	4.2	3