Rasmus KjÃ¸ller

List of Publications by Year
in descending order

63 papers	9,036 citations	117625 34 h-index	114465 63 g-index
67 all docs	67 docs citations	67 times ranked	11571 citing authors

#	Article	IF	Citations
1	The UNITE database for molecular identification of fungi â€“ recent updates and future perspectives. New Phytologist, 2010, 186, 281-285.	7.3	1,563
2	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
3	UNITE: a database providing webâ€based methods for the molecular identification of ectomycorrhizal fungi. New Phytologist, 2005, 166, 1063-1068.	7.3	912
4	Fungal community analysis by highâ€throughput sequencing of amplified markers â€“ a user's guide. New Phytologist, 2013, 199, 288-299.	7.3	747
5	High functional diversity within species of arbuscular mycorrhizal fungi. New Phytologist, 2004, 164, 357-364.	7.3	512
6	Algorithm for post-clustering curation of DNA amplicon data yields reliable biodiversity estimates. Nature Communications, 2017, 8, 1188.	12.8	451
7	FungalTraits: a user-friendly traits database of fungi and fungus-like stramenopiles. Fungal Diversity, 2020, 105, 1-16.	12.3	387
8	Towards global patterns in the diversity and community structure of ectomycorrhizal fungi. Molecular Ecology, 2012, 21, 4160-4170.	3.9	365
9	The production and turnover of extramatrical mycelium of ectomycorrhizal fungi in forest soils: role in carbon cycling. Plant and Soil, 2013, 366, 1-27.	3.7	262
10	Molecular and morphological diversity of pezizalean ectomycorrhiza. New Phytologist, 2006, 170, 581-596.	7.3	208
11	Evaluation of methods to estimate production, biomass and turnover of ectomycorrhizal mycelium in forests soils â€“ A review. Soil Biology and Biochemistry, 2013, 57, 1034-1047.	8.8	207
12	Dramatic changes in ectomycorrhizal community composition, root tip abundance and mycelial production along a standâ€scale nitrogen deposition gradient. New Phytologist, 2012, 194, 278-286.	7.3	149
13	454â€sequencing reveals stochastic local reassembly and high disturbance tolerance within arbuscular mycorrhizal fungal communities. Journal of Ecology, 2012, 100, 151-160.	4.0	131
14	Disproportionate abundance between ectomycorrhizal root tips and their associated mycelia. FEMS Microbiology Ecology, 2006, 58, 214-224.	2.7	129
15	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
16	Title is missing!. Plant and Soil, 2000, 226, 189-196.	3.7	116
17	Identification of mycorrhizal fungi from single pelotons ofDactylorhiza majalis(Orchidaceae) using single-strand conformation polymorphism and mitochondrial ribosomal large subunit DNA sequences. Molecular Ecology, 2001, 10, 2089-2093.	3.9	97
18	Colonisation and molecular diversity of arbuscular mycorrhizal fungi in the aquatic plants Littorella uniflora and Lobelia dortmanna in southern Sweden. Mycological Research, 2004, 108, 616-625.	2.5	86

#	Article	IF	Citations
19	Towards standardization of the description and publication of nextâ€generation sequencing datasets of fungal communities. New Phytologist, 2011, 191, 314-318.	7.3	85
20	Effect of phosphate and the arbuscular mycorrhizal fungus Glomus intraradices on disease severity of root rot of peas (Pisum sativum) caused by Aphanomyces euteiches. Mycorrhiza, 1998, 8, 169-174.	2.8	81
21	Molecular phylogenetics and delimitation of species in Cortinarius section Calochroi (Basidiomycota,) Tj ETQq1 1 0.784314 rgBT /Overl	2.7	80
22	Wood Ash Induced pH Changes Strongly Affect Soil Bacterial Numbers and Community Composition. Frontiers in Microbiology, 2017, 8, 1400.	3.5	74
23	Using community trait-distributions to assign microbial responses to pH changes and Cd in forest soils treated with wood ash. Soil Biology and Biochemistry, 2017, 112, 153-164.	8.8	73
24	Interactions between indigenous arbuscular mycorrhizal fungi and Aphanomyces euteiches in field-grown pea. Mycorrhiza, 2002, 12, 7-12.	2.8	66
25	Taxi drivers: the role of animals in transporting mycorrhizal fungi. Mycorrhiza, 2019, 29, 413-434.	2.8	63
26	<i>Rhizopogon</i> spore bank communities within and among California pine forests. Mycologia, 2003, 95, 603-613.	1.9	61
27	Effects of fungicides on arbuscular mycorrhizal fungi: differential responses in alkaline phosphatase activity of external and internal hyphae. Biology and Fertility of Soils, 2000, 31, 361-365.	4.3	56
28	Risk assessment of replacing conventional P fertilizers with biomass ash: Residual effects on plant yield, nutrition, cadmium accumulation and mycorrhizal status. Science of the Total Environment, 2017, 575, 1168-1176.	8.0	55
29	Man against machine: Do fungal fruitbodies and eDNA give similar biodiversity assessments across broad environmental gradients?. Biological Conservation, 2019, 233, 201-212.	4.1	55
30	Molecular diversity of glomalean (arbuscular mycorrhizal) fungi determined as distinct Glomus specific DNA sequences from roots of field grown peas fungi. Mycological Research, 2001, 105, 1027-1032.	2.5	54
31	Endoproteolytic activities in pea roots inoculated with the arbuscular mycorrhizal fungus Glomus mosseae and/or Aphanomyces euteiches in relation to bioprotection. New Phytologist, 1999, 142, 517-529.	7.3	51
32	Rhizopogon Spore Bank Communities within and among California Pine Forests. Mycologia, 2003, 95, 603.	1.9	45
33	Belowground ectomycorrhizal fungal communities respond to liming in three southern Swedish coniferous forest stands. Forest Ecology and Management, 2009, 257, 2217-2225.	3.2	43
34	Co-existing ericaceous plant species in a subarctic mire community share fungal root endophytes. Fungal Ecology, 2010, 3, 205-214.	1.6	42
35	A three-gene phylogeny of the Mycena pura complex reveals 11 phylogenetic species and shows ITS to be unreliable for species identification. Fungal Biology, 2013, 117, 764-775.	2.5	38
36	The relative importance of the bacterial pathway and soil inorganic nitrogen increase across an extreme woodâ€ash application gradient. GCB Bioenergy, 2018, 10, 320-334.	5.6	35

#	Article	IF	Citations
37	Organic amendments increase phylogenetic diversity of arbuscular mycorrhizal fungi in acid soil contaminated by trace elements. Mycorrhiza, 2016, 26, 575-585.	2.8	32
38	Ectomycorrhizal Fungal Communities and Their Functional Traits Mediate Plantâ€"Soil Interactions in Trace Element Contaminated Soils. Frontiers in Plant Science, 2018, 9, 1682.	3.6	31
39	Enzymatic Activity of the Mycelium Compared with Oospore Development During Infection of Pea Roots by Aphanomyces euteiches. Phytopathology, 1998, 88, 992-996.	2.2	30
40	Total RNA sequencing reveals multilevel microbial community changes and functional responses to wood ash application in agricultural and forest soil. FEMS Microbiology Ecology, 2020, 96, .	2.7	30
41	The presence of the arbuscular mycorrhizal fungus Glomus intraradices influences enzymatic activities of the root pathogen Aphanomyces euteiches in pea roots. Mycorrhiza, 1997, 6, 487-491.	2.8	27
42	Extension of Plant Phenotypes by the Foliar Microbiome. Annual Review of Plant Biology, 2021, 72, 823-846.	18.7	27
43	Differences in arbuscular mycorrhizal colonisation influence cadmium uptake in plants. Environmental and Experimental Botany, 2019, 162, 223-229.	4.2	26
44	Soil fungal diversity and functionality are driven by plant species used in phytoremediation. Soil Biology and Biochemistry, 2021, 153, 108102.	8.8	25
45	Suppression of arbuscular mycorrhizal fungal activity in a diverse collection of non-cultivated soils. FEMS Microbiology Ecology, 2019, 95, .	2.7	23
46	Uniquity: A general metric for biotic uniqueness of sites. Biological Conservation, 2018, 225, 98-105.	4.1	22
47	Population genomics of an outbreak of the potato late blight pathogen, <i>Phytophthora infestans</i>, reveals both clonality and high genotypic diversity. Molecular Plant Pathology, 2019, 20, 1134-1146.	4.2	21
48	A comparison between ITS phylogenetic relationships and morphological species recognition within Mycena sect. Calodontes in Northern Europe. Mycological Progress, 2010, 9, 395-405.	1.4	19
49	Cultivated and fallow fields harbor distinct communities of Basidiomycota. Fungal Ecology, 2014, 9, 43-51.	1.6	19
50	Toward a functionâ€first framework to make soil microbial ecology predictive. Ecology, 2022, 103, e03594.	3.2	19
51	Functional diversity of ectomycorrhizal fungal communities is reduced by trace element contamination. Soil Biology and Biochemistry, 2018, 121, 202-211.	8.8	17
52	Organic enrichment of sediments reduces arbuscular mycorrhizal fungi in oligotrophic lake plants. Freshwater Biology, 2013, 58, 769-779.	2.4	16
53	The complexity of wood ash fertilization disentangled: Effects on soil pH, nutrient status, plant growth and cadmium accumulation. Environmental and Experimental Botany, 2021, 185, 104424.	4.2	15
54	Application of wood ash leads to strong vertical gradients in soil pH changing prokaryotic community structure in forest top soil. Scientific Reports, 2021, 11, 742.	3.3	14

#	Article	IF	Citations
55	Wood ash effects on growth and cadmium uptake in Deschampsia flexuosa (Wavy hair-grass). Environmental Pollution, 2019, 249, 886-893.	7.5	13
56	Ameliorative Effects of Trichoderma harzianum and Rhizosphere Soil Microbes on Cadmium Biosorption of Barley (Hordeum vulgare L.) in Cd-Polluted Soil. Journal of Soil Science and Plant Nutrition, 2022, 22, 527-539.	3.4	13
57	Tropical forest type influences community assembly processes in arbuscular mycorrhizal fungi. Journal of Biogeography, 2020, 47, 434-444.	3.0	10
58	Wood ash application in a managed Norway spruce plantation did not affect ectomycorrhizal diversity or N retention capacity. Fungal Ecology, 2019, 39, 1-11.	1.6	9
59	Exploring evolutionary theories of plant defence investment using field populations of the deadly carrot. Annals of Botany, 2020, 125, 737-750.	2.9	7
60	Bacteria Respond Stronger Than Fungi Across a Steep Wood Ash-Driven pH Gradient. Frontiers in Forests and Global Change, 2021, 4, .	2.3	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. Fungal Ecology, 2019, 40, 4-11.	1.6	3
63	Arbuscular mycorrhizal fungal communities of pristine rainforests and adjacent sugarcane fields recruit from different species pools. Soil Biology and Biochemistry, 2022, 167, 108585.	8.8	3