

Petr Kohout

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

8,442
citations

218381

26
h-index

168136

53
g-index

56
all docs

56
docs citations

56
times ranked

9520
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput sequencing view on the magnitude of global fungal diversity. <i>Fungal Diversity</i> , 2022, 114, 539-547.	4.7	94
2	Changes in the root microbiome of four plant species with different mycorrhizal types across a nitrogen deposition gradient in ombrotrophic bogs. <i>Soil Biology and Biochemistry</i> , 2022, 169, 108673.	4.2	6
3	Response of soil fungal ecological guilds to global changes. <i>New Phytologist</i> , 2021, 229, 656-658.	3.5	10
4	Symbiosis of isoetid plant species with arbuscular mycorrhizal fungi under aquatic versus terrestrial conditions. <i>Mycorrhiza</i> , 2021, 31, 273-288.	1.3	3
5	Temperature and pH define the realised niche space of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2021, 231, 763-776.	3.5	126
6	PacBio sequencing of Glomeromycota rDNA: a novel amplicon covering all widely used ribosomal barcoding regions and its applicability in taxonomy and ecology of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2021, 231, 490-499.	3.5	29
7	Predictors of soil fungal biomass and community composition in temperate mountainous forests in Central Europe. <i>Soil Biology and Biochemistry</i> , 2021, 161, 108366.	4.2	17
8	Forest Microhabitat Affects Succession of Fungal Communities on Decomposing Fine Tree Roots. <i>Frontiers in Microbiology</i> , 2021, 12, 541583.	1.5	12
9	Temporal turnover of the soil microbiome composition is guild-specific. <i>Ecology Letters</i> , 2021, 24, 2726-2738.	3.0	21
10	Production of Fungal Mycelia in a Temperate Coniferous Forest Shows Distinct Seasonal Patterns. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 190.	1.5	9
11	Stand age affects fungal community composition in a Central European temperate forest. <i>Fungal Ecology</i> , 2020, 48, 100985.	0.7	15
12	GlobalFungi, a global database of fungal occurrences from high-throughput-sequencing metabarcoding studies. <i>Scientific Data</i> , 2020, 7, 228.	2.4	92
13	Impact of trees and forests on the Devonian landscape and weathering processes with implications to the global Earth's system properties - A critical review. <i>Earth-Science Reviews</i> , 2020, 205, 103200.	4.0	29
14	Alien ectomycorrhizal plants differ in their ability to interact with co-introduced and native ectomycorrhizal fungi in novel sites. <i>ISME Journal</i> , 2020, 14, 2336-2346.	4.4	19
15	Diverse fungal communities associated with the roots of isoetid plants are structured by host plant identity. <i>Fungal Ecology</i> , 2020, 45, 100914.	0.7	10
16	Early successional ectomycorrhizal fungi are more likely to naturalize outside their native range than other ectomycorrhizal fungi. <i>New Phytologist</i> , 2020, 227, 1289-1293.	3.5	17
17	Altered rhizoctonia assemblages in grasslands on exarable land support germination of mycorrhizal generalist, not specialist orchids. <i>New Phytologist</i> , 2020, 227, 1200-1212.	3.5	33
18	FungalTraits: a user-friendly traits database of fungi and fungus-like stramenopiles. <i>Fungal Diversity</i> , 2020, 105, 1-16.	4.7	387

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19	Diversity of fungi and bacteria in species-rich grasslands increases with plant diversity in shoots but not in roots and soil. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	24
20	A meta-analysis of global fungal distribution reveals climate-driven patterns. <i>Nature Communications</i> , 2019, 10, 5142.	5.8	232
21	Microarthropods influence the composition of rhizospheric fungal communities by stimulating specific taxa. <i>Soil Biology and Biochemistry</i> , 2018, 122, 120-130.	4.2	15
22	Clearcutting alters decomposition processes and initiates complex restructuring of fungal communities in soil and tree roots. <i>ISME Journal</i> , 2018, 12, 692-703.	4.4	100
23	Host preference and network properties in biotrophic plant-fungal associations. <i>New Phytologist</i> , 2018, 217, 1230-1239.	3.5	107
24	Sympatric diploid and tetraploid cytotypes of <i>Centaurea stoebe</i> s.l. do not differ in arbuscular mycorrhizal communities and mycorrhizal growth response. <i>American Journal of Botany</i> , 2018, 105, 1995-2007.	0.8	9
25	Effect of soil moisture on root-associated fungal communities of <i>Erica dominans</i> in Drakensberg mountains in South Africa. <i>Mycorrhiza</i> , 2017, 27, 397-406.	1.3	12
26	Local-scale spatial structure and community composition of orchid mycorrhizal fungi in semi-natural grasslands. <i>Mycorrhiza</i> , 2017, 27, 355-367.	1.3	21
27	Root-associated fungal communities along a primary succession on a mine spoil: Distinct ecological guilds assemble differently. <i>Soil Biology and Biochemistry</i> , 2017, 113, 143-152.	4.2	46
28	Development of microbial community during primary succession in areas degraded by mining activities. <i>Land Degradation and Development</i> , 2017, 28, 2574-2584.	1.8	89
29	Asymmetric response of root-associated fungal communities of an arbuscular mycorrhizal grass and an ectomycorrhizal tree to their coexistence in primary succession. <i>Mycorrhiza</i> , 2017, 27, 775-789.	1.3	18
30	Elevation, space and host plant species structure Ericaceae root-associated fungal communities in Papua New Guinea. <i>Fungal Ecology</i> , 2017, 30, 112-121.	0.7	5
31	Interactions of saprotrophic fungi with tree roots: can we observe the emergence of novel ectomycorrhizal fungi?. <i>New Phytologist</i> , 2017, 215, 511-513.	3.5	21
32	Plant Communities Rather than Soil Properties Structure Arbuscular Mycorrhizal Fungal Communities along Primary Succession on a Mine Spoil. <i>Frontiers in Microbiology</i> , 2017, 8, 719.	1.5	71
33	Biogeography of Ericoid Mycorrhiza. <i>Ecological Studies</i> , 2017, , 179-193.	0.4	29
34	Arbuscular mycorrhizal fungi associating with roots of <i>Alnus</i> and <i>Rubus</i> in Europe and the Middle East. <i>Fungal Ecology</i> , 2016, 24, 27-34.	0.7	12
35	Forest reclamation of fly ash deposit: a field study on appraisal of mycorrhizal inoculation. <i>Restoration Ecology</i> , 2016, 24, 184-193.	1.4	15
36	Stochastic distribution of small soil eukaryotes resulting from high dispersal and drift in a local environment. <i>ISME Journal</i> , 2016, 10, 885-896.	4.4	256

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37	Temporal patterns of orchid mycorrhizal fungi in meadows and forests as revealed by 454 pyrosequencing. <i>New Phytologist</i> , 2015, 205, 1608-1618.	3.5	96
38	Niche partitioning in arbuscular mycorrhizal communities in temperate grasslands: a lesson from adjacent serpentine and nonserpentine habitats. <i>Molecular Ecology</i> , 2015, 24, 1831-1843.	2.0	31
39	The Potential of Dark Septate Endophytes to Form Root Symbioses with Ectomycorrhizal and Ericoid Mycorrhizal Middle European Forest Plants. <i>PLoS ONE</i> , 2015, 10, e0124752.	1.1	92
40	Global diversity and geography of soil fungi. <i>Science</i> , 2014, 346, 1256688.	6.0	2,513
41	Comparison of commonly used primer sets for evaluating arbuscular mycorrhizal fungal communities: Is there a universal solution?. <i>Soil Biology and Biochemistry</i> , 2014, 68, 482-493.	4.2	141
42	Towards a unified paradigm for sequence-based identification of fungi. <i>Molecular Ecology</i> , 2013, 22, 5271-5277.	2.0	2,997
43	Soil nutritional status, not inoculum identity, primarily determines the effect of arbuscular mycorrhizal fungi on the growth of <i>Knautia arvensis</i> plants. <i>Mycorrhiza</i> , 2013, 23, 561-572.	1.3	8
44	A diverse fungal community associated with <i>Pseudorchis albida</i> (Orchidaceae) roots. <i>Fungal Ecology</i> , 2013, 6, 50-64.	0.7	61
45	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.	1.3	63
46	The cultivable endophytic community of Norway spruce ectomycorrhizas from microhabitats lacking ericaceous hosts is dominated by ericoid mycorrhizal <i>Meliniomyces variabilis</i> . <i>Fungal Ecology</i> , 2013, 6, 281-292.	0.7	84
47	Novel Root-Fungus Symbiosis in Ericaceae: Sheathed Ericoid Mycorrhiza Formed by a Hitherto Undescribed Basidiomycete with Affinities to Trechisporales. <i>PLoS ONE</i> , 2012, 7, e39524.	1.1	72
48	Surprising spectra of root-associated fungi in submerged aquatic plants. <i>FEMS Microbiology Ecology</i> , 2012, 80, 216-235.	1.3	119
49	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.	1.1	51
50	Ericaceous dwarf shrubs affect ectomycorrhizal fungal community of the invasive <i>Pinus strobus</i> and native <i>Pinus sylvestris</i> in a pot experiment. <i>Mycorrhiza</i> , 2011, 21, 403-412.	1.3	78
51	Asymmetric Interaction Between Two Mycorrhizal Fungal Guilds and Consequences for the Establishment of Their Host Plants. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	2