

Petr Capek

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,118
citations

331538

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h-index

414303

32
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all docs

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docs citations

36
times ranked

3157
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin Preservation and Microbial Carbohydrate Metabolism in Permafrost Soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, e2020JG006181.	1.3	5
2	Coupling the resource stoichiometry and microbial biomass turnover to predict nutrient mineralization and immobilization in soil. <i>Geoderma</i> , 2021, 385, 114884.	2.3	26
3	Biochemical inhibition of acid phosphatase activity in two mountain spruce forest soils. <i>Biology and Fertility of Soils</i> , 2021, 57, 991-1005.	2.3	2
4	The total microbiome functions in bacteria and fungi. <i>Journal of Proteomics</i> , 2020, 213, 103623.	1.2	16
5	Explorative Meta-Analysis of 377 Extant Fungal Genomes Predicted a Total Mycobiome Functionality of 42.4 Million KEGG Functions. <i>Frontiers in Microbiology</i> , 2020, 11, 143.	1.5	8
6	Apparent temperature sensitivity of soil respiration can result from temperature driven changes in microbial biomass. <i>Soil Biology and Biochemistry</i> , 2019, 135, 286-293.	4.2	29
7	Incomplete cell disruption of resistant microbes. <i>Scientific Reports</i> , 2019, 9, 5618.	1.6	22
8	Significance of dark CO ₂ fixation in arctic soils. <i>Soil Biology and Biochemistry</i> , 2018, 119, 11-21.	4.2	58
9	Fate of carbohydrates and lignin in north-east Siberian permafrost soils. <i>Soil Biology and Biochemistry</i> , 2018, 116, 311-322.	4.2	59
10	Reviews and syntheses: Carbon use efficiency from organisms to ecosystems – definitions, theories, and empirical evidence. <i>Biogeosciences</i> , 2018, 15, 5929-5949.	1.3	98
11	A plant-microbe interaction framework explaining nutrient effects on primary production. <i>Nature Ecology and Evolution</i> , 2018, 2, 1588-1596.	3.4	100
12	Temperature response of permafrost soil carbon is attenuated by mineral protection. <i>Global Change Biology</i> , 2018, 24, 3401-3415.	4.2	107
13	Amino acid production exceeds plant nitrogen demand in Siberian tundra. <i>Environmental Research Letters</i> , 2018, 13, 034002.	2.2	49
14	In situ phosphorus dynamics in soil: long-term ion-exchange resin study. <i>Biogeochemistry</i> , 2018, 139, 307-320.	1.7	8
15	Indications that long-term nitrogen loading limits carbon resources for soil microbes. <i>Soil Biology and Biochemistry</i> , 2017, 115, 310-321.	4.2	19
16	Recovery of the ectomycorrhizal community after termination of long-term nitrogen fertilisation of a boreal Norway spruce forest. <i>Fungal Ecology</i> , 2017, 29, 116-122.	0.7	17
17	Optimal metabolic regulation along resource stoichiometry gradients. <i>Ecology Letters</i> , 2017, 20, 1182-1191.	3.0	118
18	Variation in N ₂ Fixation in Subarctic Tundra in Relation to Landscape Position and Nitrogen Pools and Fluxes. <i>Arctic, Antarctic, and Alpine Research</i> , 2016, 48, 111-125.	0.4	19

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19	Plant-derived compounds stimulate the decomposition of organic matter in arctic permafrost soils. <i>Scientific Reports</i> , 2016, 6, 25607.	1.6	87
20	Drivers of phosphorus limitation across soil microbial communities. <i>Functional Ecology</i> , 2016, 30, 1705-1713.	1.7	27
21	Heterogeneity of carbon loss and its temperature sensitivity in East-European subarctic tundra soils. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw140.	1.3	10
22	Potential carbon emissions dominated by carbon dioxide from thawed permafrost soils. <i>Nature Climate Change</i> , 2016, 6, 950-953.	8.1	288
23	Main photoautotrophic components of biofilms in natural draft cooling towers. <i>Folia Microbiologica</i> , 2016, 61, 255-260.	1.1	10
24	Storage and transformation of organic matter fractions in cryoturbated permafrost soils across the Siberian Arctic. <i>Biogeosciences</i> , 2015, 12, 4525-4542.	1.3	85
25	Bacterial community of cushion plant <i>Thylacospermum caespitosum</i> on elevational gradient in the Himalayan cold desert. <i>Frontiers in Microbiology</i> , 2015, 6, 304.	1.5	44
26	The effect of warming on the vulnerability of subducted organic carbon in arctic soils. <i>Soil Biology and Biochemistry</i> , 2015, 90, 19-29.	4.2	68
27	Effects of Soil Organic Matter Properties and Microbial Community Composition on Enzyme Activities in Cryoturbated Arctic Soils. <i>PLoS ONE</i> , 2014, 9, e94076.	1.1	90
28	Site- and horizon-specific patterns of microbial community structure and enzyme activities in permafrost-affected soils of Greenland. <i>Frontiers in Microbiology</i> , 2014, 5, 541.	1.5	73
29	Distinct microbial communities associated with buried soils in the Siberian tundra. <i>ISME Journal</i> , 2014, 8, 841-853.	4.4	137
30	Input of easily available organic C and N stimulates microbial decomposition of soil organic matter in arctic permafrost soil. <i>Soil Biology and Biochemistry</i> , 2014, 75, 143-151.	4.2	213
31	Nitrogen dynamics in Turbic Cryosols from Siberia and Greenland. <i>Soil Biology and Biochemistry</i> , 2013, 67, 85-93.	4.2	78
32	Rapid degradation of pyrogenic carbon. <i>Global Change Biology</i> , 2012, 18, 3306-3316.	4.2	136
33	Measurement of <i>in situ</i> Phosphorus Availability in Acidified Soils using Iron-Infused Resin. <i>Communications in Soil Science and Plant Analysis</i> , 0, , 1-8.	0.6	1