Christina Kaiser

List of Publications by Year
in descending order

33 papers	4,624 citations	186265 28 h-index	330143 37 g-index
45 all docs	45 docs citations	45 times ranked	6598 citing authors

#	Article	IF	Citations
1	Contrasting drivers of belowground nitrogen cycling in a montane grassland exposed to a multifactorial global change experiment with elevated CO₂, warming, and drought. Global Change Biology, 2022, 28, 2425-2441.	9.5	25
2	From diversity to complexity: Microbial networks in soils. Soil Biology and Biochemistry, 2022, 169, 108604.	8.8	67
3	Recently photoassimilated carbon and fungusâ€delivered nitrogen are spatially correlated in the ectomycorrhizal tissue of <i>Fagus sylvatica</i>. New Phytologist, 2021, 232, 2457-2474.	7.3	19
4	A critical perspective on interpreting amplicon sequencing data in soil ecological research. Soil Biology and Biochemistry, 2021, 160, 108357.	8.8	36
5	Persistence of soil organic carbon caused by functional complexity. Nature Geoscience, 2020, 13, 529-534.	12.9	363
6	Nitrogen and phosphorus constrain the CO2 fertilization of global plant biomass. Nature Climate Change, 2019, 9, 684-689.	18.8	269
7	Editorial: Rhizosphere Functioning and Structural Development as Complex Interplay Between Plants, Microorganisms and Soil Minerals. Frontiers in Environmental Science, 2019, 7, .	3.3	19
8	Rapid Transfer of Plant Photosynthates to Soil Bacteria via Ectomycorrhizal Hyphae and Its Interaction With Nitrogen Availability. Frontiers in Microbiology, 2019, 10, 168.	3.5	106
9	Root Exudation of Primary Metabolites: Mechanisms and Their Roles in Plant Responses to Environmental Stimuli. Frontiers in Plant Science, 2019, 10, 157.	3.6	540
10	Recognizing Patterns: Spatial Analysis of Observed Microbial Colonization on Root Surfaces. Frontiers in Environmental Science, 2018, 6, .	3.3	38
11	Microbial temperature sensitivity and biomass change explain soil carbon loss with warming. Nature Climate Change, 2018, 8, 885-889.	18.8	230
12	Synergistic effects of diffusion and microbial physiology reproduce the Birch effect in a micro-scale model. Soil Biology and Biochemistry, 2016, 93, 28-37.	8.8	55
13	Social dynamics within decomposer communities lead to nitrogen retention and organic matter build-up in soils. Nature Communications, 2015, 6, 8960.	12.8	80
14	Exploring the transfer of recent plant photosynthates to soil microbes: mycorrhizal pathway vs direct root exudation. New Phytologist, 2015, 205, 1537-1551.	7.3	370
15	Site- and horizon-specific patterns of microbial community structure and enzyme activities in permafrost-affected soils of Greenland. Frontiers in Microbiology, 2014, 5, 541.	3.5	73
16	Microbial community dynamics alleviate stoichiometric constraints during litter decay. Ecology Letters, 2014, 17, 680-690.	6.4	302
17	Fungal and bacterial utilization of organic substrates depends on substrate complexity and N availability. FEMS Microbiology Ecology, 2014, 87, 142-152.	2.7	108
18	Nitrogen dynamics in Turbic Cryosols from Siberia and Greenland. Soil Biology and Biochemistry, 2013, 67, 85-93.	8.8	78

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19	Seasonal variation in functional properties of microbial communities in beech forest soil. Soil Biology and Biochemistry, 2013, 60, 95-104.	8.8	131
20	Optimization of Biomass Composition Explains Microbial Growth-Stoichiometry Relationships. American Naturalist, 2011, 177, E29-E42.	2.1	53
21	Seasonality and resource availability control bacterial and archaeal communities in soils of a temperate beech forest. ISME Journal, 2011, 5, 389-402.	9.8	273
22	Microbial processes and community composition in the rhizosphere of European beechÂâ€“ÂThe influence of plant C exudates. Soil Biology and Biochemistry, 2011, 43, 551-558.	8.8	170
23	Plants control the seasonal dynamics of microbial N cycling in a beech forest soil by belowground C allocation. Ecology, 2011, 92, 1036-1051.	3.2	118
24	Plants control the seasonal dynamics of microbial N cycling in a beech forest soil by belowground C allocation. Ecology, 2011, 92, 1036-1051.	3.2	19
25	Negligible contribution from roots to soil-borne phospholipid fatty acid fungal biomarkers 18:2Ï‰6,9 and 18:1Ï‰9. Soil Biology and Biochemistry, 2010, 42, 1650-1652.	8.8	150
26	Belowground carbon allocation by trees drives seasonal patterns of extracellular enzyme activities by altering microbial community composition in a beech forest soil. New Phytologist, 2010, 187, 843-858.	7.3	337
27	Combining agent-based and stock-flow modelling approaches in a participative analysis of the integrated land system in Reichraming, Austria. Landscape Ecology, 2009, 24, 1149-1165.	4.2	62
28	Initial effects of experimental warming on carbon exchange rates, plant growth and microbial dynamics of a lichen-rich dwarf shrub tundra in Siberia. Plant and Soil, 2008, 307, 191-205.	3.7	126
29	Conservation of soil organic matter through cryoturbation in arctic soils in Siberia. Journal of Geophysical Research, 2007, 112, .	3.3	118
30	Soil carbon and nitrogen dynamics along a latitudinal transect in Western Siberia, Russia. Biogeochemistry, 2006, 81, 239-252.	3.5	27
31	Temperature-dependent shift from labile to recalcitrant carbon sources of arctic heterotrophs. Rapid Communications in Mass Spectrometry, 2005, 19, 1401-1408.	1.5	145
32	Microtopography and Plant-Cover Controls on Nitrogen Dynamics in Hummock Tundra Ecosystems in Siberia. Arctic, Antarctic, and Alpine Research, 2005, 37, 435-443.	1.1	33
33	Storage and mineralization of carbon and nitrogen in soils of a frost-boil tundra ecosystem in Siberia. Applied Soil Ecology, 2005, 29, 173-183.	4.3	40