Christina SchÃ¤del

List of Publications by Year
in descending order

42 papers	6,174 citations	186254 28 h-index	302107 39 g-index
48 all docs	48 docs citations	48 times ranked	7256 citing authors

#	Article	IF	Citations
1	Arctic coasts predicted to erode. Nature Climate Change, 2022, 12, 224-225.	18.8	4
2	Current knowledge and uncertainties associated with the Arctic greenhouse gas budget. , 2022, , 159-201.		1
3	Microbiome assembly in thawing permafrost and its feedbacks to climate. Global Change Biology, 2022, 28, 5007-5026.	9.5	34
4	Tundra Underlain By Thawing Permafrost Persistently Emits Carbon to the Atmosphere Over 15 Years of Measurements. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006044.	3.0	19
5	Projecting Permafrost Thaw of Subâ€Arctic Tundra With a Thermodynamic Model Calibrated to Site Measurements. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006218.	3.0	11
6	Experimental soil warming and permafrost thaw increase CH 4 emissions in an upland tundra ecosystem. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006376.	3.0	3
7	The Borealâ€“Arctic Wetland and Lake Dataset (BAWLD). Earth System Science Data, 2021, 13, 5127-5149.	9.9	46
8	Carbon Thaw Rate Doubles When Accounting for Subsidence in a Permafrost Warming Experiment. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005528.	3.0	28
9	Subsea permafrost carbon stocks and climate change sensitivity estimated by expert assessment. Environmental Research Letters, 2020, 15, 124075.	5.2	34
10	Decomposability of soil organic matter over time: the Soil Incubation Database (SIDb, version 1.0) and guidance for incubation procedures. Earth System Science Data, 2020, 12, 1511-1524.	9.9	26
11	An open-source database for the synthesis of soil radiocarbon data: International Soil Radiocarbon Database (ISRaD) version 1.0. Earth System Science Data, 2020, 12, 61-76.	9.9	48
12	Direct observation of permafrost degradation and rapid soil carbon loss in tundra. Nature Geoscience, 2019, 12, 627-631.	12.9	137
13	The Expanding Footprint of Rapid Arctic Change. Earth's Future, 2019, 7, 212-218.	6.3	38
14	Using Stable Carbon Isotopes of Seasonal Ecosystem Respiration to Determine Permafrost Carbon Loss. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 46-60.	3.0	8
15	Glucose addition increases the magnitude and decreases the age of soil respired carbon in a long-term permafrost incubation study. Soil Biology and Biochemistry, 2019, 129, 201-211.	8.8	26
16	Beyond clay: towards an improved set of variables for predicting soil organic matter content. Biogeochemistry, 2018, 137, 297-306.	3.5	423
17	Dependence of the evolution of carbon dynamics in the northern permafrost region on the trajectory of climate change. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3882-3887.	7.1	296
18	Divergent patterns of experimental and model-derived permafrost ecosystem carbon dynamics in response to Arctic warming. Environmental Research Letters, 2018, 13, 105002.	5.2	31

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19	Improving understanding of soil organic matter dynamics by triangulating theories, measurements, and models. Biogeochemistry, 2018, 140, 1-13.	3.5	83
20	Adding Depth to Our Understanding of Nitrogen Dynamics in Permafrost Soils. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2497-2512.	3.0	73
21	Nonlinear <scp>CO</scp>₂ flux response to 7Âyears of experimentally induced permafrost thaw. Global Change Biology, 2017, 23, 3646-3666.	9.5	64
22	Deep Yedoma permafrost: A synthesis of depositional characteristics and carbon vulnerability. Earth-Science Reviews, 2017, 172, 75-86.	9.1	236
23	Tundra is a consistent source of CO₂ at a site with progressive permafrost thaw during 6Âyears of chamber and eddy covariance measurements. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1471-1485.	3.0	29
24	Temperature sensitivity of organic matter decomposition of permafrost-region soils during laboratory incubations. Soil Biology and Biochemistry, 2016, 97, 1-14.	8.8	73
25	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. Global Biogeochemical Cycles, 2016, 30, 1015-1037.	4.9	116
26	Potential carbon emissions dominated by carbon dioxide from thawed permafrost soils. Nature Climate Change, 2016, 6, 950-953.	18.8	288
27	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. Environmental Research Letters, 2016, 11, 034014.	5.2	199
28	A panâ€Arctic synthesis of CH₄ and CO₂ production from anoxic soil incubations. Global Change Biology, 2015, 21, 2787-2803.	9.5	138
29	Climate change and the permafrost carbon feedback. Nature, 2015, 520, 171-179.	27.8	2,369
30	A simplified, data-constrained approach to estimate the permafrost carbonâ€“climate feedback. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140423.	3.4	149
31	Circumpolar assessment of permafrost C quality and its vulnerability over time using longâ€term incubation data. Global Change Biology, 2014, 20, 641-652.	9.5	231
32	Long-term CO2 production following permafrost thaw. Nature Climate Change, 2013, 3, 890-894.	18.8	186
33	Separating soil CO2 efflux into C-pool-specific decay rates via inverse analysis of soil incubation data. Oecologia, 2013, 171, 721-732.	2.0	48
34	Expert assessment of vulnerability of permafrost carbon to climate change. Climatic Change, 2013, 119, 359-374.	3.6	257
35	Differential responses of soil organic carbon fractions to warming: Results from an analysis with data assimilation. Soil Biology and Biochemistry, 2013, 67, 24-30.	8.8	25
36	Terrestrial C:N stoichiometry in response to elevated CO2 and N addition: a synthesis of two meta-analyses. Plant and Soil, 2011, 343, 393-400.	3.7	78

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37	Quantification and monosaccharide composition of hemicelluloses from different plant functional types. Plant Physiology and Biochemistry, 2010, 48, 1-8.	5.8	132
38	Hemicellulose concentration and composition in plant cell walls under extreme carbon source-sink imbalances. Physiologia Plantarum, 2010, 139, 241-55.	5.2	31
39	Expanding leaves of mature deciduous forest trees rapidly become autotrophic. Tree Physiology, 2010, 30, 1253-1259.	3.1	59
40	Short-term dynamics of nonstructural carbohydrates and hemicelluloses in young branches of temperate forest trees during bud break. Tree Physiology, 2009, 29, 901-911.	3.1	84
41	Biofuels and Ecosystem Carbon Balance Under Global Change. , 0, , .		0
42	We Must Stop Fossil Fuel Emissions to Protect Permafrost Ecosystems. Frontiers in Environmental Science, 0, 10, .	3.3	9