

# Christina Schädel

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

6,174  
citations

212478

28  
h-index

340414

39  
g-index

48  
all docs

48  
docs citations

48  
times ranked

8153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arctic coasts predicted to erode. <i>Nature Climate Change</i> , 2022, 12, 224-225.	8.1	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. <i>Global Change Biology</i> , 2022, 28, 5007-5026.	4.2	34
4	Tundra Underlain By Thawing Permafrost Persistently Emits Carbon to the Atmosphere Over 15 Years of Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006044.	1.3	19
5	Projecting Permafrost Thaw of Sub-Arctic Tundra With a Thermodynamic Model Calibrated to Site Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006218.	1.3	11
6	Experimental soil warming and permafrost thaw increase CH <sub>4</sub> emissions in an upland tundra ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006376.	1.3	3
7	The Boreal Arctic Wetland and Lake Dataset (BAWLD). <i>Earth System Science Data</i> , 2021, 13, 5127-5149.	3.7	46
8	Carbon Thaw Rate Doubles When Accounting for Subsidence in a Permafrost Warming Experiment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005528.	1.3	28
9	Subsea permafrost carbon stocks and climate change sensitivity estimated by expert assessment. <i>Environmental Research Letters</i> , 2020, 15, 124075.	2.2	34
10	Decomposability of soil organic matter over time: the Soil Incubation Database (SIDb, version 1.0) and guidance for incubation procedures. <i>Earth System Science Data</i> , 2020, 12, 1511-1524.	3.7	26
11	An open-source database for the synthesis of soil radiocarbon data: International Soil Radiocarbon Database (ISRaD) version 1.0. <i>Earth System Science Data</i> , 2020, 12, 61-76.	3.7	48
12	Direct observation of permafrost degradation and rapid soil carbon loss in tundra. <i>Nature Geoscience</i> , 2019, 12, 627-631.	5.4	137
13	The Expanding Footprint of Rapid Arctic Change. <i>Earth's Future</i> , 2019, 7, 212-218.	2.4	38
14	Using Stable Carbon Isotopes of Seasonal Ecosystem Respiration to Determine Permafrost Carbon Loss. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 46-60.	1.3	8
15	Glucose addition increases the magnitude and decreases the age of soil respired carbon in a long-term permafrost incubation study. <i>Soil Biology and Biochemistry</i> , 2019, 129, 201-211.	4.2	26
16	Beyond clay: towards an improved set of variables for predicting soil organic matter content. <i>Biogeochemistry</i> , 2018, 137, 297-306.	1.7	423
17	Dependence of the evolution of carbon dynamics in the northern permafrost region on the trajectory of climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3882-3887.	3.3	296
18	Divergent patterns of experimental and model-derived permafrost ecosystem carbon dynamics in response to Arctic warming. <i>Environmental Research Letters</i> , 2018, 13, 105002.	2.2	31

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19	Improving understanding of soil organic matter dynamics by triangulating theories, measurements, and models. <i>Biogeochemistry</i> , 2018, 140, 1-13.	1.7	83
20	Adding Depth to Our Understanding of Nitrogen Dynamics in Permafrost Soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2497-2512.	1.3	73
21	Nonlinear $\text{CO}_2$ flux response to 7 years of experimentally induced permafrost thaw. <i>Global Change Biology</i> , 2017, 23, 3646-3666.	4.2	64
22	Deep Yedoma permafrost: A synthesis of depositional characteristics and carbon vulnerability. <i>Earth-Science Reviews</i> , 2017, 172, 75-86.	4.0	236
23	Tundra is a consistent source of $\text{CO}_2$ at a site with progressive permafrost thaw during 6 years of chamber and eddy covariance measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1471-1485.	1.3	29
24	Temperature sensitivity of organic matter decomposition of permafrost-region soils during laboratory incubations. <i>Soil Biology and Biochemistry</i> , 2016, 97, 1-14.	4.2	73
25	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1015-1037.	1.9	116
26	Potential carbon emissions dominated by carbon dioxide from thawed permafrost soils. <i>Nature Climate Change</i> , 2016, 6, 950-953.	8.1	288
27	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016, 11, 034014.	2.2	199
28	A pan-Arctic synthesis of $\text{CH}_4$ and $\text{CO}_2$ production from anoxic soil incubations. <i>Global Change Biology</i> , 2015, 21, 2787-2803.	4.2	138
29	Climate change and the permafrost carbon feedback. <i>Nature</i> , 2015, 520, 171-179.	13.7	2,369
30	A simplified, data-constrained approach to estimate the permafrost carbon-climate feedback. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140423.	1.6	149
31	Circumpolar assessment of permafrost C quality and its vulnerability over time using long-term incubation data. <i>Global Change Biology</i> , 2014, 20, 641-652.	4.2	231
32	Long-term $\text{CO}_2$ production following permafrost thaw. <i>Nature Climate Change</i> , 2013, 3, 890-894.	8.1	186
33	Separating soil $\text{CO}_2$ efflux into C-pool-specific decay rates via inverse analysis of soil incubation data. <i>Oecologia</i> , 2013, 171, 721-732.	0.9	48
34	Expert assessment of vulnerability of permafrost carbon to climate change. <i>Climatic Change</i> , 2013, 119, 359-374.	1.7	257
35	Differential responses of soil organic carbon fractions to warming: Results from an analysis with data assimilation. <i>Soil Biology and Biochemistry</i> , 2013, 67, 24-30.	4.2	25
36	Terrestrial C:N stoichiometry in response to elevated $\text{CO}_2$ and N addition: a synthesis of two meta-analyses. <i>Plant and Soil</i> , 2011, 343, 393-400.	1.8	78

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37	Quantification and monosaccharide composition of hemicelluloses from different plant functional types. <i>Plant Physiology and Biochemistry</i> , 2010, 48, 1-8.	2.8	132
38	Hemicellulose concentration and composition in plant cell walls under extreme carbon source-sink imbalances. <i>Physiologia Plantarum</i> , 2010, 139, 241-55.	2.6	31
39	Expanding leaves of mature deciduous forest trees rapidly become autotrophic. <i>Tree Physiology</i> , 2010, 30, 1253-1259.	1.4	59
40	Short-term dynamics of nonstructural carbohydrates and hemicelluloses in young branches of temperate forest trees during bud break. <i>Tree Physiology</i> , 2009, 29, 901-911.	1.4	84
41	Biofuels and Ecosystem Carbon Balance Under Global Change. , 0, , .		0
42	We Must Stop Fossil Fuel Emissions to Protect Permafrost Ecosystems. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	9