

Chien-Lu Ping

List of Publications by Year in descending order

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43
papers

3,975
citations

201674
27
h-index

254184
43
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48
all docs

48
docs citations

48
times ranked

4547
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimated stocks of circumpolar permafrost carbon with quantified uncertainty ranges and identified data gaps. <i>Biogeosciences</i> , 2014, 11, 6573-6593.	3.3	1,079
2	High stocks of soil organic carbon in the North American Arctic region. <i>Nature Geoscience</i> , 2008, 1, 615-619.	12.9	306
3	Field information links permafrost carbon to physical vulnerabilities of thawing. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	265
4	Permafrost soils and carbon cycling. <i>Soil</i> , 2015, 1, 147-171.	4.9	241
5	Changes of climate and seasonally frozen ground over the past 30 years in Qinghaiâ€“Xizang (Tibetan) Plateau, China. <i>Global and Planetary Change</i> , 2004, 43, 19-31.	3.5	230
6	Mobilization pathways of organic carbon from permafrost to arctic rivers in a changing climate. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	222
7	Methane emissions proportional to permafrost carbon thawed in Arctic lakes since the 1950s. <i>Nature Geoscience</i> , 2016, 9, 679-682.	12.9	150
8	A new data set for estimating organic carbon storage to 3 m depth in soils of the northern circumpolar permafrost region. <i>Earth System Science Data</i> , 2013, 5, 393-402.	9.9	148
9	Spatial heterogeneity and environmental predictors of permafrost region soil organic carbon stocks. <i>Science Advances</i> , 2021, 7, .	10.3	130
10	Soil carbon distribution in Alaska in relation to soil-forming factors. <i>Geoderma</i> , 2011, 167-168, 71-84.	5.1	112
11	Frost-boil ecosystems: complex interactions between landforms, soils, vegetation and climate. <i>Permafrost and Periglacial Processes</i> , 2004, 15, 171-188.	3.4	110
12	Soil carbon and material fluxes across the eroding Alaska Beaufort Sea coastline. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	84
13	Chemical and isotopic characterization of sizeâ€“fractionated organic matter from cryoturbated tundra soils, northern Alaska. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	57
14	Soil Pedon Carbon and Nitrogen Data for Alaska: An Analysis and Update. <i>Open Journal of Soil Science</i> , 2013, 03, 132-142.	0.8	53
15	Cold-season Production of CO ₂ in Arctic Soils: Can Laboratory and Field Estimates Be Reconciled through a Simple Modeling Approach?. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 249-256.	1.1	50
16	Sampling Protocols for Permafrost-Affected Soils. <i>Soil Horizons</i> , 2013, 54, 13.	0.3	48
17	The Full-Glacial Environment of the Northern Seward Peninsula, Alaska, Reconstructed from the 21,500-Year-Old Kitluk Paleosol. <i>Quaternary Research</i> , 2000, 53, 143-153.	1.7	44
18	Soil organic matter dynamics under decaying wood in a subtropical wet forest: effect of tree species and decay stage. <i>Plant and Soil</i> , 2007, 296, 173-185.	3.7	44

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19	Clay Mineralogy in Arctic Tundra Gelisols, Northern Alaska. Soil Science Society of America Journal, 2010, 74, 580-592.	2.2	43
20	Potential DOC production from size-fractionated Arctic tundra soils. Cold Regions Science and Technology, 2009, 55, 141-150.	3.5	38
21	Modelling carbon balances of coastal arctic tundra under changing climate. Global Change Biology, 2003, 9, 16-36.	9.5	36
22	Characterizing soil organic matter quality in arctic soil by cover type and depth. Cold Regions Science and Technology, 2004, 38, 63-73.	3.5	35
23	Properties and soil development of late-Pleistocene paleosols from Seward Peninsula, northwest Alaska. Geoderma, 1996, 71, 219-243.	5.1	32
24	Large uncertainty in permafrost carbon stocks due to hillslope soil deposits. Geophysical Research Letters, 2017, 44, 6134-6144.	4.0	31
25	Variations in soil nutrient availability across Tibetan grassland from the 1980s to 2010s. Geoderma, 2019, 338, 197-205.	5.1	31
26	Estimating the Impact of Seawater on the Production of Soil Water-Extractable Organic Carbon during Coastal Erosion. Journal of Environmental Quality, 2008, 37, 2368-2374.	2.0	29
27	Fingerprinting soil organic matter in the arctic to help predict CO ₂ flux. Cold Regions Science and Technology, 2002, 35, 185-194.	3.5	28
28	Diapirism in soils due to thaw of ice-rich material near the permafrost table. Permafrost and Periglacial Processes, 1999, 10, 349-367.	3.4	27
29	Soil Acidity and Exchange Properties of Cryogenic Soils in Arctic Alaska. Soil Science and Plant Nutrition, 2005, 51, 649-653.	1.9	26
30	Influence of site and soil properties on the DRIFT spectra of northern cold-region soils. Geoderma, 2017, 305, 80-91.	5.1	26
31	The effects of warming and soil chemistry on bacterial community structure in Arctic tundra soils. Soil Biology and Biochemistry, 2020, 148, 107882.	8.8	26
32	Properties of Permafrost Soils on the Northern Seward Peninsula, Northwest Alaska. Soil Science Society of America Journal, 1998, 62, 1629-1639.	2.2	23
33	Permafrost Organic Carbon Mobilization From the Watershed to the Colville River Delta: Evidence From ¹⁴ C Ramped Pyrolysis and Lignin Biomarkers. Geophysical Research Letters, 2017, 44, 11,491.	4.0	23
34	Characterization of Pyroclastic Deposits and Pre-eruptive Soils following the 2008 Eruption of Kasatochi Island Volcano, Alaska. Arctic, Antarctic, and Alpine Research, 2010, 42, 276-284.	1.1	18
35	Predicting the decomposability of arctic tundra soil organic matter with mid infrared spectroscopy. Soil Biology and Biochemistry, 2019, 129, 1-12.	8.8	18
36	Spatial variation of tundra soil organic carbon along the coastline of northern Alaska. Geoderma, 2010, 154, 328-335.	5.1	16

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37	Hydromorphic Soil Development in the Coastal Temperate Rainforest of Alaska. Soil Science Society of America Journal, 2015, 79, 698-709.	2.2	16
38	Growth of balsam poplar and black cottonwood in Alaska in relation to landform and soil. Canadian Journal of Forest Research, 2001, 31, 1793-1804.	1.7	10
39	Soil Nitrogen Transformations Associated with Small Patterned Ground Features along a North American Arctic Transect. Permafrost and Periglacial Processes, 2012, 23, 196-206.	3.4	8
40	Soil Organic Carbon Reactivity Along the Eroding Coastline of Northern Alaska. Soil Science, 2017, 182, 227-232.	0.9	4
41	Commentary. Integrating Research, Education, and Traditional Knowledge in Ecology: a Case Study of Biocomplexity in Arctic Ecosystems. Arctic, Antarctic, and Alpine Research, 2010, 42, 379-384.	1.1	3
42	Recent Warming Fuels Increased Organic Carbon Export From Arctic Permafrost. AGU Advances, 2021, 2, e2021AV000396.	5.4	3
43	Latitudinal transect relationship between soil organic horizons and permafrost depth in Alaska. Applied Soil Ecology, 2018, 123, 588-596.	4.3	2