

Claudia Czimczik

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

8,568
citations

117625

34
h-index

98798

67
g-index

73
all docs

73
docs citations

73
times ranked

11244
citing authors

#	ARTICLE	IF	CITATIONS
1	Source apportionment of carbonaceous aerosols in diverse atmospheric environments of China by dual-carbon isotope method. <i>Science of the Total Environment</i> , 2022, 806, 150654.	8.0	4
2	Closing the Winter Gap—Year-Round Measurements of Soil CO ₂ Emission Sources in Arctic Tundra. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
3	Seasonal variation of aerosol composition in Orange County, Southern California. <i>Atmospheric Environment</i> , 2021, 244, 117795.	4.1	3
4	Application of the ECT9 protocol for radiocarbon-based source apportionment of carbonaceous aerosols. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3481-3500.	3.1	12
5	TIME-INTEGRATED COLLECTION OF CO ₂ FOR ¹⁴ C ANALYSIS FROM SOILS. <i>Radiocarbon</i> , 2021, 63, 1303-1319.	1.8	3
6	Assessing the Potential for Mobilization of Old Soil Carbon After Permafrost Thaw: A Synthesis of ¹⁴ C Measurements From the Northern Permafrost Region. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006672.	4.9	36
7	Seasonal fluctuation of nonstructural carbohydrates reveals the metabolic availability of stemwood reserves in temperate trees with contrasting wood anatomy. <i>Tree Physiology</i> , 2020, 40, 1355-1365.	3.1	19
8	Do recent NDVI trends demonstrate boreal forest decline in Alaska?. <i>Environmental Research Letters</i> , 2020, 15, 095007.	5.2	15
9	Seasonal Cycle of Isotope-Based Source Apportionment of Elemental Carbon in Airborne Particulate Matter and Snow at Alert, Canada. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033125.	3.3	6
10	Inter-comparison of elemental and organic carbon mass measurements from three North American national long-term monitoring networks at a co-located site. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4543-4560.	3.1	11
11	Seasonal Patterns of Riverine Carbon Sources and Export in NW Greenland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 840-856.	3.0	15
12	Seasonal Sources of Whole-Lake CH ₄ and CO ₂ Emissions From Interior Alaskan Thermokarst Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1209-1229.	3.0	23
13	Large loss of CO ₂ in winter observed across the northern permafrost region. <i>Nature Climate Change</i> , 2019, 9, 852-857.	18.8	225
14	Source signatures from combined isotopic analyses of PM _{2.5} carbonaceous and nitrogen aerosols at the peri-urban Taehwa Research Forest, South Korea in summer and fall. <i>Science of the Total Environment</i> , 2019, 655, 1505-1514.	8.0	17
15	Greenhouse gas emissions from diverse Arctic Alaskan lakes are dominated by young carbon. <i>Nature Climate Change</i> , 2018, 8, 166-171.	18.8	72
16	Smoke radiocarbon measurements from Indonesian fires provide evidence for burning of millennia-aged peat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12419-12424.	7.1	52
17	Winter Ecosystem Respiration and Sources of CO ₂ From the High Arctic Tundra of Svalbard: Response to a Deeper Snow Experiment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2627-2642.	3.0	14
18	Respiration of aged soil carbon during fall in permafrost peatlands enhanced by active layer deepening following wildfire but limited following thermokarst. <i>Environmental Research Letters</i> , 2018, 13, 085002.	5.2	35

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19	Tracing Artificially Recharged Groundwater using Water and Carbon Isotopes. Radiocarbon, 2017, 59, 407-421.	1.8	6
20	Using radiocarbon to constrain black and organic carbon aerosol sources in Salt Lake City. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9843-9857.	3.3	16
21	Preparation for Radiocarbon Analysis. , 2016, , 279-315.		5
22	Convergence in nitrogen deposition and cryptic isotopic variation across urban and agricultural valleys in northern Utah. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2340-2355.	3.0	18
23	Developing a passive trap for diffusive atmospheric ¹⁴ CO ₂ sampling. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 632-637.	1.4	7
24	Black carbon aerosol dynamics and isotopic composition in Alaska linked with boreal fire emissions and depth of burn in organic soils. Global Biogeochemical Cycles, 2015, 29, 1977-2000.	4.9	23
25	Accuracy and precision of ¹⁴ C-based source apportionment of organic and elemental carbon in aerosols using the Swiss_4S protocol. Atmospheric Measurement Techniques, 2015, 8, 3729-3743.	3.1	9
26	A rapid method for preparing low volume CH ₄ and CO ₂ gas samples for ¹⁴ C AMS analysis. Organic Geochemistry, 2015, 78, 89-98.	1.8	28
27	Distribution and mixing of old and new nonstructural carbon in two temperate trees. New Phytologist, 2015, 206, 590-597.	7.3	117
28	Non-structural carbon dynamics and allocation relate to growth rate and leaf habit in California oaks. Tree Physiology, 2015, 35, tpu097.	3.1	41
29	The amount and timing of precipitation control the magnitude, seasonality and sources (¹⁴ C) of ecosystem respiration in a polar semi-desert, northwestern Greenland. Biogeosciences, 2014, 11, 4289-4304.	3.3	20
30	Nonstructural Carbon in Woody Plants. Annual Review of Plant Biology, 2014, 65, 667-687.	18.7	533
31	High Arctic wetting reduces permafrost carbon feedbacks to climate warming. Nature Climate Change, 2014, 4, 51-55.	18.8	76
32	Quantifying fire-wide carbon emissions in interior Alaska using field measurements and Landsat imagery. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1608-1629.	3.0	39
33	Rates and radiocarbon content of summer ecosystem respiration in response to long-term deeper snow in the High Arctic of NW Greenland. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1180-1194.	3.0	24
34	Controls on methane released through ebullition in peatlands affected by permafrost degradation. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 418-431.	3.0	46
35	Extraction of Nonstructural Carbon and Cellulose from Wood for Radiocarbon Analysis. Bio-protocol, 2014, 4, .	0.4	7
36	Expert assessment of vulnerability of permafrost carbon to climate change. Climatic Change, 2013, 119, 359-374.	3.6	257

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37	Age, allocation and availability of nonstructural carbon in mature red maple trees. <i>New Phytologist</i> , 2013, 200, 1145-1155.	7.3	179
38	Seasonal dynamics and age of stemwood nonstructural carbohydrates in temperate forest trees. <i>New Phytologist</i> , 2013, 197, 850-861.	7.3	324
39	Ecosystem-level controls on root-rhizosphere respiration. <i>New Phytologist</i> , 2013, 199, 339-351.	7.3	175
40	Intercomparison of ¹⁴ C Analysis of Carbonaceous Aerosols: Exercise 2009. <i>Radiocarbon</i> , 2013, 55, 1496-1509.	1.8	23
41	Basin-wide variations in Amazon forest structure and function are mediated by both soils and climate. <i>Biogeosciences</i> , 2012, 9, 2203-2246.	3.3	487
42	Nitrous oxide emissions and isotopic composition in urban and agricultural systems in southern California. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
43	Coordinated approaches to quantify long-term ecosystem dynamics in response to global change. <i>Global Change Biology</i> , 2011, 17, 843-854.	9.5	165
44	Water and heat transport in boreal soils: Implications for soil response to climate change. <i>Science of the Total Environment</i> , 2011, 409, 1836-1842.	8.0	21
45	Soils of Amazonia with particular reference to the RAINFOR sites. <i>Biogeosciences</i> , 2011, 8, 1415-1440.	3.3	340
46	Variations in chemical and physical properties of Amazon forest soils in relation to their genesis. <i>Biogeosciences</i> , 2010, 7, 1515-1541.	3.3	365
47	Carbon sequestration and greenhouse gas emissions in urban turf. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	83
48	Radiocarbon Content of CO ₂ Respired from High Arctic Tundra in Northwest Greenland. <i>Arctic, Antarctic, and Alpine Research</i> , 2010, 42, 342-350.	1.1	34
49	Branch xylem density variations across the Amazon Basin. <i>Biogeosciences</i> , 2009, 6, 545-568.	3.3	84
50	Drought Sensitivity of the Amazon Rainforest. <i>Science</i> , 2009, 323, 1344-1347.	12.6	1,443
51	Microbial activity and soil respiration under nitrogen addition in Alaskan boreal forest. <i>Global Change Biology</i> , 2008, 14, 1156-1168.	9.5	330
52	Effects of temperature and fertilization on nitrogen cycling and community composition of an urban lawn. <i>Global Change Biology</i> , 2008, 14, 2119-2131.	9.5	107
53	Uptake of an amino acid by ectomycorrhizal fungi in a boreal forest. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1964-1966.	8.8	10
54	An Uncertain Future for Soil Carbon. <i>Science</i> , 2008, 321, 1455-1456.	12.6	197

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55	Short-term controls on the age of microbial carbon sources in boreal forest soils. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	26
56	Allocation and residence time of photosynthetic products in a boreal forest using a low-level ¹⁴ C pulse-chase labeling technique. <i>Global Change Biology</i> , 2007, 13, 466-477.	9.5	131
57	Controls on black carbon storage in soils. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	284
58	Changing sources of soil respiration with time since fire in a boreal forest. <i>Global Change Biology</i> , 2006, 12, 957-971.	9.5	134
59	Radiocarbon – a low-impact tool to study nutrient transport by soil fungi under field conditions. <i>New Phytologist</i> , 2005, 166, 595-600.	7.3	7
60	Effects of increasing fire frequency on black carbon and organic matter in Podzols of Siberian Scots pine forests. <i>European Journal of Soil Science</i> , 2005, 56, 417-428.	3.9	115
61	The above-ground coarse wood productivity of 104 Neotropical forest plots. <i>Global Change Biology</i> , 2004, 10, 563-591.	9.5	436
62	Pattern and process in Amazon tree turnover, 1976–2001. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 381-407.	4.0	370
63	Effects of reforestation, deforestation, and afforestation on carbon storage in soils. , 2004, , 319-330.		2
64	How surface fire in Siberian Scots pine forests affects soil organic carbon in the forest floor: Stocks, molecular structure, and conversion to black carbon (charcoal). <i>Global Biogeochemical Cycles</i> , 2003, 17, .	4.9	157
65	Effects of charring on mass, organic carbon, and stable carbon isotope composition of wood. <i>Organic Geochemistry</i> , 2002, 33, 1207-1223.	1.8	237
66	The Eurosiberian Transect: an introduction to the experimental region.. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 421-428.	1.6	36
67	Beyond annual budgets: carbon flux at different temporal scales in fire-prone Siberian Scots pine forests. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 611-630.	1.6	72
68	Comparative analysis of black carbon in soils. <i>Global Biogeochemical Cycles</i> , 2001, 15, 163-167.	4.9	267