

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	Drought Sensitivity of the Amazon Rainforest. <i>Science</i> , 2009, 323, 1344-1347.	12.6	1,443
2	Nonstructural Carbon in Woody Plants. <i>Annual Review of Plant Biology</i> , 2014, 65, 667-687.	18.7	533
3	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
4	The above-ground coarse wood productivity of 104 Neotropical forest plots. <i>Global Change Biology</i> , 2004, 10, 563-591.	9.5	436
5	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
6	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
7	Soils of Amazonia with particular reference to the RAINFOR sites. <i>Biogeosciences</i> , 2011, 8, 1415-1440.	3.3	340
8	Microbial activity and soil respiration under nitrogen addition in Alaskan boreal forest. <i>Global Change Biology</i> , 2008, 14, 1156-1168.	9.5	330
9	Seasonal dynamics and age of stemwood nonstructural carbohydrates in temperate forest trees. <i>New Phytologist</i> , 2013, 197, 850-861.	7.3	324
10	Controls on black carbon storage in soils. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	284
11	Comparative analysis of black carbon in soils. <i>Global Biogeochemical Cycles</i> , 2001, 15, 163-167.	4.9	267
12	Expert assessment of vulnerability of permafrost carbon to climate change. <i>Climatic Change</i> , 2013, 119, 359-374.	3.6	257
13	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
14	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
15	An Uncertain Future for Soil Carbon. <i>Science</i> , 2008, 321, 1455-1456.	12.6	197
16	Age, allocation and availability of nonstructural carbon in mature red maple trees. <i>New Phytologist</i> , 2013, 200, 1145-1155.	7.3	179
17	Ecosystem-level controls on root-rhizosphere respiration. <i>New Phytologist</i> , 2013, 199, 339-351.	7.3	175
18	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

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19	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
20	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
21	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
22	Distribution and mixing of old and new nonstructural carbon in two temperate trees. <i>New Phytologist</i> , 2015, 206, 590-597.	7.3	117
23	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
24	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
25	Branch xylem density variations across the Amazon Basin. <i>Biogeosciences</i> , 2009, 6, 545-568.	3.3	84
26	Carbon sequestration and greenhouse gas emissions in urban turf. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	83
27	High Arctic wetting reduces permafrost carbon feedbacks to climate warming. <i>Nature Climate Change</i> , 2014, 4, 51-55.	18.8	76
28	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
29	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
30	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
31	Controls on methane released through ebullition in peatlands affected by permafrost degradation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 418-431.	3.0	46
32	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
33	Non-structural carbon dynamics and allocation relate to growth rate and leaf habit in California oaks. <i>Tree Physiology</i> , 2015, 35, tpv097.	3.1	41
34	Quantifying fire-wide carbon emissions in interior Alaska using field measurements and Landsat imagery. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1608-1629.	3.0	39
35	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
36	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

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37	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
38	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
39	A rapid method for preparing low volume CH ₄ and CO ₂ gas samples for 14 C AMS analysis. <i>Organic Geochemistry</i> , 2015, 78, 89-98.	1.8	28
40	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
41	Rates and radiocarbon content of summer ecosystem respiration in response to long-term deeper snow in the High Arctic of NW Greenland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1180-1194.	3.0	24
42	Intercomparison of ¹⁴ C Analysis of Carbonaceous Aerosols: Exercise 2009. <i>Radiocarbon</i> , 2013, 55, 1496-1509.	1.8	23
43	Black carbon aerosol dynamics and isotopic composition in Alaska linked with boreal fire emissions and depth of burn in organic soils. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1977-2000.	4.9	23
44	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
45	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
46	The amount and timing of precipitation control the magnitude, seasonality and sources ($\delta^{14}\text{C}$) of ecosystem respiration in a polar semi-desert, northwestern Greenland. <i>Biogeosciences</i> , 2014, 11, 4289-4304.	3.3	20
47	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
48	Convergence in nitrogen deposition and cryptic isotopic variation across urban and agricultural valleys in northern Utah. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2340-2355.	3.0	18
49	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
50	Using radiocarbon to constrain black and organic carbon aerosol sources in Salt Lake City. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9843-9857.	3.3	16
51	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
52	Do recent NDVI trends demonstrate boreal forest decline in Alaska?. <i>Environmental Research Letters</i> , 2020, 15, 095007.	5.2	15
53	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
54	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

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55	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
56	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
57	Accuracy and precision of $\delta^{14}\text{C}$ -based source apportionment of organic and elemental carbon in aerosols using the Swiss_4S protocol. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3729-3743.	3.1	9
58	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
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	Developing a passive trap for diffusive atmospheric $^{14}\text{CO}_2$ sampling. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 632-637.	1.4	7
61	Extraction of Nonstructural Carbon and Cellulose from Wood for Radiocarbon Analysis. <i>Bio-protocol</i> , 2014, 4, .	0.4	7
62	Tracing Artificially Recharged Groundwater using Water and Carbon Isotopes. <i>Radiocarbon</i> , 2017, 59, 407-421.	1.8	6
63	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
64	Preparation for Radiocarbon Analysis. , 2016, , 279-315.		5
65	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
66	Seasonal variation of aerosol composition in Orange County, Southern California. <i>Atmospheric Environment</i> , 2021, 244, 117795.	4.1	3
67	TIME-INTEGRATED COLLECTION OF CO_2 FOR ^{14}C ANALYSIS FROM SOILS. <i>Radiocarbon</i> , 2021, 63, 1303-1319.	1.8	3
68	Effects of reforestation, deforestation, and afforestation on carbon storage in soils. , 2004, , 319-330.		2