

Cristina SantÃ- n

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

3,173
citations

201575

27
h-index

214721

47
g-index

59
all docs

59
docs citations

59
times ranked

3753
citing authors

#	ARTICLE	IF	CITATIONS
1	Wildland fire ash: Production, composition and eco-hydro-geomorphic effects. <i>Earth-Science Reviews</i> , 2014, 130, 103-127.	4.0	434
2	Global trends in wildfire and its impacts: perceptions versus realities in a changing world. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150345.	1.8	383
3	Towards a global assessment of pyrogenic carbon from vegetation fires. <i>Global Change Biology</i> , 2016, 22, 76-91.	4.2	256
4	Pyrogenic organic matter production from wildfires: a missing sink in the global carbon cycle. <i>Global Change Biology</i> , 2015, 21, 1621-1633.	4.2	214
5	Global and Regional Trends and Drivers of Fire Under Climate Change. <i>Reviews of Geophysics</i> , 2022, 60, .	9.0	182
6	Fire effects on soils: the human dimension. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150171.	1.8	166
7	Global fire emissions buffered by the production of pyrogenic carbon. <i>Nature Geoscience</i> , 2019, 12, 742-747.	5.4	140
8	Characterizing humic substances from estuarine soils and sediments by excitation-emission matrix spectroscopy and parallel factor analysis. <i>Biogeochemistry</i> , 2009, 96, 131-147.	1.7	133
9	Carbon sequestration potential and physicochemical properties differ between wildfire charcoals and slow-pyrolysis biochars. <i>Scientific Reports</i> , 2017, 7, 11233.	1.6	93
10	Forest floor chemical transformations in a boreal forest fire and their correlations with temperature and heating duration. <i>Geoderma</i> , 2016, 264, 71-80.	2.3	84
11	Prescribed fire and its impacts on ecosystem services in the UK. <i>Science of the Total Environment</i> , 2018, 624, 691-703.	3.9	71
12	Fires prime terrestrial organic carbon for riverine export to the global oceans. <i>Nature Communications</i> , 2020, 11, 2791.	5.8	71
13	Quantity, composition and water contamination potential of ash produced under different wildfire severities. <i>Environmental Research</i> , 2015, 142, 297-308.	3.7	69
14	Assessing water contamination risk from vegetation fires: Challenges, opportunities and a framework for progress. <i>Hydrological Processes</i> , 2018, 32, 687-694.	1.1	60
15	Saltmarsh soil evolution after land reclamation in Atlantic estuaries (Bay of Biscay, North coast of) Tj ETQq1 1 0.784314 rgBT /Overlook	1.1	55
16	Consumption of residual pyrogenic carbon by wildfire. <i>International Journal of Wildland Fire</i> , 2013, 22, 1072.	1.0	52
17	The black carbon cycle and its role in the Earth system. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 516-532.	12.2	52
18	Carbon loads, forms and sequestration potential within ash deposits produced by wildfire: new insights from the 2009 "Black Saturday" fires, Australia. <i>European Journal of Forest Research</i> , 2012, 131, 1245-1253.	1.1	51

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19	Scientists' warning on extreme wildfire risks to water supply. <i>Hydrological Processes</i> , 2021, 35, e14086.	1.1	51
20	Wildfires influence on soil organic matter in an Atlantic mountainous region (NW of Spain). <i>Catena</i> , 2008, 74, 286-295.	2.2	47
21	The nitrogen budget of laboratory-simulated western US wildfires during the FIREX 2016 Fire Lab study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8807-8826.	1.9	45
22	Chemical composition of wildfire ash produced in contrasting ecosystems and its toxicity to <i>Daphnia magna</i> . <i>International Journal of Wildland Fire</i> , 2019, 28, 726.	1.0	44
23	Living on a flammable planet: interdisciplinary, cross-scalar and varied cultural lessons, prospects and challenges. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150469.	1.8	39
24	Impact of a moderate/high-severity prescribed eucalypt forest fire on soil phosphorous stocks and partitioning. <i>Science of the Total Environment</i> , 2018, 621, 1103-1114.	3.9	39
25	Characterization of humic substances in salt marsh soils under sea rush (<i>Juncus maritimus</i>). <i>Estuarine, Coastal and Shelf Science</i> , 2008, 79, 541-548.	0.9	38
26	Effects of reclamation and regeneration processes on organic matter from estuarine soils and sediments. <i>Organic Geochemistry</i> , 2009, 40, 931-941.	0.9	38
27	Fire as a Removal Mechanism of Pyrogenic Carbon From the Environment: Effects of Fire and Pyrogenic Carbon Characteristics. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	36
28	Environmentally persistent free radicals are ubiquitous in wildfire charcoals and remain stable for years. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	29
29	What Can Charcoal Reflectance Tell Us About Energy Release in Wildfires and the Properties of Pyrogenic Carbon?. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	25
30	A global synthesis of fire effects on ecosystem services of forests and woodlands. <i>Frontiers in Ecology and the Environment</i> , 2022, 20, 170-178.	1.9	25
31	The Relevance of Pyrogenic Carbon for Carbon Budgets From Fires: Insights From the FIREX Experiment. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006647.	1.9	16
32	Designing tools to predict and mitigate impacts on water quality following the Australian 2019/2020 wildfires: Insights from Sydney's largest water supply catchment. <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 1151-1161.	1.6	16
33	Boreal forest soil carbon fluxes one year after a wildfire: Effects of burn severity and management. <i>Global Change Biology</i> , 2021, 27, 4181-4195.	4.2	16
34	Humic substances in estuarine soils colonized by <i>Spartina maritima</i> . <i>Estuarine, Coastal and Shelf Science</i> , 2009, 81, 481-490.	0.9	12
35	Nutrient and oxygenation conditions in transitional and coastal waters: Proposing metrics for status assessment. <i>Ecological Indicators</i> , 2010, 10, 1184-1192.	2.6	11
36	Modelling and quantifying the spatial distribution of post-wildfire ash loads. <i>International Journal of Wildland Fire</i> , 2016, 25, 249.	1.0	9

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37	Editorial: From Fires to Oceans: Dynamics of Fire-Derived Organic Matter in Terrestrial and Aquatic Ecosystems. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	9
38	Variations of organic carbon stock in reclaimed estuarine soils (Villaviciosa estuary, NW Spain). <i>Science of the Total Environment</i> , 2007, 378, 138-142.	3.9	8
39	Key drivers of pyrogenic carbon redistribution during a simulated rainfall event. <i>Biogeosciences</i> , 2021, 18, 1105-1126.	1.3	8
40	Wildfire-Derived Pyrogenic Carbon Modulates Riverine Organic Matter and Biofilm Enzyme Activities in an In Situ Flume Experiment. <i>ACS ES&T Water</i> , 2021, 1, 1648-1656.	2.3	8
41	Response of <i>Calamagrostis angustifolia</i> to burn frequency and seasonality in the Sanjiang Plain wetlands (Northeast China). <i>Journal of Environmental Management</i> , 2021, 300, 113759.	3.8	8
42	Wildland fire ash enhances short-term CO ₂ flux from soil in a Southern African savannah. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108334.	4.2	7
43	Statement of Contribution to Diversity, Equity, and Inclusion for <i>JGR: Biogeosciences</i>. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	5
44	Pyrogenic organic matter produced during wildfires can act as a carbon sink “ a reply to Billings & Schlesinger (2015). <i>Global Change Biology</i> , 2018, 24, e399.	4.2	2
45	No evidence of suitability of prophylactic fluids for wildfire prevention at landscape scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5103-5104.	3.3	2
46	Automatic Delineation of Forest Patches in Highly Fragmented Landscapes Using Coloured Point Clouds. <i>Forests</i> , 2020, 11, 198.	0.9	2