Lauric CÃ©cillon

List of Publications by Year
in descending order

45 papers	2,889 citations	230014 27 h-index	263392 45 g-index
66 all docs	66 docs citations	66 times ranked	4614 citing authors

#	Article	IF	Citations
1	A robust initialization method for accurate soil organic carbon simulations. Biogeosciences, 2022, 19, 375-387.	1.3	6
2	Topsoil organic matter buildâ€up in glacier forelands around the world. Global Change Biology, 2021, 27, 1662-1677.	4.2	41
3	Long-term bare-fallow soil fractions reveal thermo-chemical properties controlling soil organic carbon dynamics. Biogeosciences, 2021, 18, 1703-1718.	1.3	9
4	A dual response. Nature Geoscience, 2021, 14, 262-263.	5.4	2
5	Partitioning soil organic carbon into its centennially stable and active fractions with machine-learning models based on Rock-EvalÂ® thermal analysis (PARTY_{SOC}v2.0 and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 577.5d (PARTY<s Geoscientific Model Development, 2021, 14, 3879-3898.	5.1	19
6	Predicting Rock-EvalÂ® thermal analysis parameters of a soil layer based on samples from its sublayers; an experimental study on forest soils. Organic Geochemistry, 2021, 160, 104289.	0.9	3
7	Tamm Review: Influence of forest management activities on soil organic carbon stocks: A knowledge synthesis. Forest Ecology and Management, 2020, 466, 118127.	1.4	327
8	Pyrogenic carbon content and dynamics in top and subsoil of French forests. Soil Biology and Biochemistry, 2019, 133, 12-15.	4.2	13
9	Heterogeneity of the chemical composition and thermal stability of particulate organic matter in French forest soils. Geoderma, 2019, 342, 65-74.	2.3	25
10	Changes in the Rock-Eval signature of soil organic carbon upon extreme soil warming and chemical oxidation - A comparison. Geoderma, 2019, 337, 181-190.	2.3	19
11	Environmental factors controlling soil organic carbon stability in French forest soils. Plant and Soil, 2018, 426, 267-286.	1.8	61
12	Is Rock-Eval 6 thermal analysis a good indicator of soil organic carbon lability? â€“ A method-comparison study in forest soils. Soil Biology and Biochemistry, 2018, 117, 108-116.	4.2	43
13	Predicting mechanical degradation indicators of silver fir wooden strips using near infrared spectroscopy. European Journal of Wood and Wood Products, 2018, 76, 43-55.	1.3	5
14	A model based on Rock-Eval thermal analysis to quantify the size of the centennially persistent organic carbon pool in temperate soils. Biogeosciences, 2018, 15, 2835-2849.	1.3	30
15	Microbial and plant-derived compounds both contribute to persistent soil organic carbon in temperate soils. Biogeochemistry, 2018, 140, 81-92.	1.7	50
16	Seasonality alters drivers of soil enzyme activity in subalpine grassland soil undergoing climate change. Soil Biology and Biochemistry, 2018, 124, 266-274.	4.2	13
17	Soil sciences and the French 4 per 1000 Initiativeâ€"The promises of underground carbon. Energy Research and Social Science, 2018, 45, 144-152.	3.0	29
18	Le solÂ: enquÃªte sur les mÃ©canismes de (non) Ã©mergence dâ€™un problÃ¨me public environnemental. VertigO: La Revue Electronique En Sciences De L'environnement, 2018, , .	0.0	5

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19	Climate change effects on the stability and chemistry of soil organic carbon pools in a subalpine grassland. Biogeochemistry, 2017, 132, 123-139.	1.7	34
20	Increasing soil carbon storage: mechanisms, effects of agricultural practices and proxies. A review. Agronomy for Sustainable Development, 2017, 37, 1.	2.2	292
21	Geological control of soil organic carbon and nitrogen stocks at the landscape scale. Geoderma, 2017, 285, 50-56.	2.3	94
22	Accounting for Carbon Stocks in Soils and Measuring GHGs Emission Fluxes from Soils: Do We Have the Necessary Standards?. Frontiers in Environmental Science, 2017, 5, .	1.5	57
23	The energetic and chemical signatures of persistent soil organic matter. Biogeochemistry, 2016, 130, 1-12.	1.7	108
24	Dynamics of soil organic matter based on new Rock-Eval indices. Geoderma, 2016, 284, 185-203.	2.3	67
25	Comparison of infrared spectroscopy and laser granulometry as alternative methods to estimate soil aggregate stability in Mediterranean badlands. Geoderma, 2016, 271, 225-233.	2.3	12
26	Increase in soil aggregate stability along a Mediterranean successional gradient in severely eroded gully bed ecosystems: combined effects of soil, root traits and plant community characteristics. Plant and Soil, 2016, 398, 121-137.	1.8	144
27	Peatland vascular plant functional types affect methane dynamics by altering microbial community structure. Journal of Ecology, 2015, 103, 925-934.	1.9	90
28	Landscape-scale distribution patterns of earthworms inferred from soil DNA. Soil Biology and Biochemistry, 2015, 83, 100-105.	4.2	29
29	Characterizing Above- and Belowground Carbon Partitioning in Forest Trees along an Altitudinal Gradient using Area-Based Indicators. Arctic, Antarctic, and Alpine Research, 2015, 47, 59-69.	0.4	16
30	Integrating ecological engineering and ecological intensification from management practices to ecosystem services into a generic framework: a review. Agronomy for Sustainable Development, 2015, 35, 1335-1345.	2.2	17
31	Surveying the carbon pools of mountain soils: A comparison of physical fractionation and Rock-Eval pyrolysis. Geoderma, 2015, 241-242, 279-288.	2.3	37
32	Seasonal influence of climate manipulation on microbial community structure and function in mountain soils. Soil Biology and Biochemistry, 2015, 80, 296-305.	4.2	70
33	Foliar exposure of the crop Lactuca sativa to silver nanoparticles: Evidence for internalization and changes in Ag speciation. Journal of Hazardous Materials, 2014, 264, 98-106.	6.5	335
34	Fate of pristine TiO2 nanoparticles and aged paint-containing TiO2 nanoparticles in lettuce crop after foliar exposure. Journal of Hazardous Materials, 2014, 273, 17-26.	6.5	199
35	Morphological diversity of plant barriers does not increase sediment retention in eroded marly gullies under ecological restoration. Plant and Soil, 2013, 370, 653-669.	1.8	28
36	Permafrost Distribution Drives Soil Organic Matter Stability in a Subarctic Palsa Peatland. Ecosystems, 2013, 16, 934-947.	1.6	19

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37	Soil organic carbon quantity, chemistry and thermal stability in a mountainous landscape: A Rockâ€“Eval pyrolysis survey. Organic Geochemistry, 2013, 54, 101-114.	0.9	68
38	The effects of earthworm species on soil behaviour depend on land use. Soil Biology and Biochemistry, 2013, 65, 264-273.	4.2	25
39	Spectral fingerprinting of soil organic matter composition. Organic Geochemistry, 2012, 46, 127-136.	0.9	34
40	In Situ Dynamics of Microbial Communities during Decomposition of Wheat, Rape, and Alfalfa Residues. Microbial Ecology, 2010, 60, 816-828.	1.4	60
41	Soil macroaggregate dynamics in a mountain spatial climate gradient. Biogeochemistry, 2010, 97, 31-43.	1.7	25
42	Predicting soil quality indices with near infrared analysis in a wildfire chronosequence. Science of the Total Environment, 2009, 407, 1200-1205.	3.9	32
43	Assessment and monitoring of soil quality using nearâ€infrared reflectance spectroscopy (NIRS). European Journal of Soil Science, 2009, 60, 770-784.	1.8	179
44	Variable selection in near infrared spectra for the biological characterization of soil and earthworm casts. Soil Biology and Biochemistry, 2008, 40, 1975-1979.	4.2	65
45	The impact of soil temperature increase on organic matter and faunal properties in a frozen calcareous scree in the French Alps. Geoderma, 2008, 146, 239-247.	2.3	13