

Sophie Cornu

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,366
citations

471371

17
h-index

345118

36
g-index

46
all docs

46
docs citations

46
times ranked

2047
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmosphere–soil carbon transfer as a function of soil depth. <i>Nature</i> , 2018, 559, 599-602.	13.7	273
2	Evidence of titanium mobility in soil profiles, Manaus, central Amazonia. <i>Geoderma</i> , 1999, 91, 281-295.	2.3	162
3	Lessivage as a major process of soil formation: A revisit of existing data. <i>Geoderma</i> , 2011, 167-168, 135-147.	2.3	75
4	Location of natural trace elements in silty soils using particle-size fractionation. <i>Geoderma</i> , 2006, 133, 295-308.	2.3	72
5	Rare earth elements as tracers of pedogenetic processes. <i>Comptes Rendus - Geoscience</i> , 2008, 340, 523-532.	0.4	70
6	Trace element accumulation in Mn–Fe oxide nodules of a planosolic horizon. <i>Geoderma</i> , 2005, 125, 11-24.	2.3	62
7	The impact of redox conditions on the rare earth element signature of redoximorphic features in a soil sequence developed from limestone. <i>Geoderma</i> , 2012, 170, 25-38.	2.3	58
8	Effect of Agricultural Practices on Trace Element Distribution in Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2007, 38, 473-491.	0.6	52
9	Rare earth elements dynamics along pedogenesis in a chronosequence of podzolic soils. <i>Chemical Geology</i> , 2016, 446, 163-174.	1.4	52
10	Identifying the Functional Macropore Network Related to Preferential Flow in Structured Soils. <i>Vadose Zone Journal</i> , 2015, 14, vzj2015.05.0070.	1.3	49
11	The environmental impact of heavy metals from sewage sludge in ferralsols (São Paulo, Brazil). <i>Science of the Total Environment</i> , 2001, 271, 27-48.	3.9	45
12	Paleotemperature of the last interglacial period based on $\delta^{18}O$ of <i>Strombus bubonius</i> from the western Mediterranean Sea. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1993, 103, 1-20.	1.0	38
13	Evidence of short-term clay evolution in soils under human impact. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 747-757.	0.4	33
14	Vertical distributions of ^{137}Cs in soils: a meta-analysis. <i>Journal of Soils and Sediments</i> , 2015, 15, 81-95.	1.5	29
15	Dating constituent formation in soils to determine rates of soil processes: A review. <i>Geoderma</i> , 2009, 153, 293-303.	2.3	28
16	Evaluating SoilGen2 as a tool for projecting soil evolution induced by global change. <i>Science of the Total Environment</i> , 2016, 571, 110-123.	3.9	21
17	3D representation of soil distribution: An approach for understanding pedogenesis. <i>Comptes Rendus - Geoscience</i> , 2009, 341, 486-494.	0.4	16
18	Agricultural drainage-induced Albeluvisol evolution: A source of deterministic chaos. <i>Geoderma</i> , 2013, 193-194, 109-116.	2.3	16

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19	Quantification of vertical solid matter transfers in soils during pedogenesis by a multi-tracer approach. <i>Journal of Soils and Sediments</i> , 2017, 17, 408-422.	1.5	16
20	Effects of soil process formalisms and forcing factors on simulated organic carbon depth-distributions in soils. <i>Science of the Total Environment</i> , 2019, 652, 523-537.	3.9	16
21	Controls of the spatial variability of Cr concentration in topsoils of a central French landscape. <i>Geoderma</i> , 2006, 132, 143-157.	2.3	13
22	Quantification of soil volumes in the Eg & Bt-horizon of an Albeluvisol using image analysis. <i>Canadian Journal of Soil Science</i> , 2007, 87, 51-59.	0.5	13
23	Including Stable Carbon Isotopes to Evaluate the Dynamics of Soil Carbon in the Land Surface Model ORCHIDEE. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3650-3669.	1.3	13
24	Aggregation and Dispersion Behavior in the 0- to 2- Åµm Fraction of Luvisols. <i>Soil Science Society of America Journal</i> , 2015, 79, 43-54.	1.2	12
25	Changes in the pathway and the intensity of albic material genesis: Role of agricultural practices. <i>Geoderma</i> , 2016, 268, 156-164.	2.3	12
26	Response of copper concentrations and stable isotope ratios to artificial drainage in a French Retisol. <i>Geoderma</i> , 2017, 300, 44-54.	2.3	12
27	Comparaison d'extractions sÃ©quentielles et cinÃ©tiques pour la spÃ©ciation de As dans des sols sableux contaminÃ©s. <i>Comptes Rendus - Geoscience</i> , 2004, 336, 1007-1015.	0.4	11
28	Can SOC modelling be improved by accounting for pedogenesis?. <i>Geoderma</i> , 2019, 338, 513-524.	2.3	10
29	Retention of ¹⁰ Be, ¹³⁷ Cs and ²¹⁰ Pbxs in soils: Impact of physico-chemical characteristics. <i>Geoderma</i> , 2020, 367, 114242.	2.3	8
30	Distribution d'un Ã©lÃ©ment trace (Cr) dans un sol dÃ©veloppÃ© sur roches mÃ©tamorphiques : variabilitÃ© Ã l'Ã©chelle d'un versant. <i>Comptes Rendus - Geoscience</i> , 2002, 334, 51-58.	0.4	7
31	Image-analytically derived conceptual model of Albeluvisol morphological degradation induced by artificial drainage in France. <i>Geoderma</i> , 2012, 189-190, 296-303.	2.3	6
32	The use of radiocarbon ¹⁴ C to constrain carbon dynamics in the soil module of the land surface model ORCHIDEE (SVN r5165). <i>Geoscientific Model Development</i> , 2018, 11, 4711-4726.	1.3	6
33	Allophanes, a significant soil pool of silicon for plants. <i>Geoderma</i> , 2022, 412, 115722.	2.3	6
34	Consequences of aggregation for the trace element distribution in the subsoil of a Planosol naturally rich in trace metal. <i>Geoderma</i> , 2006, 136, 160-173.	2.3	5
35	To which extent do rain interruption periods affect colloid retention in macroporous soils?. <i>Geoderma</i> , 2016, 275, 40-47.	2.3	5
36	Pedological characteristics of artificialized soils: A snapshot. <i>Geoderma</i> , 2021, 401, 115321.	2.3	5

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37	Impact of carbo-gaseous saline waters registered by soils. <i>Catena</i> , 2001, 45, 209-228.	2.2	4
38	DISTRIBUTION OF MAJOR AND TRACE ELEMENTS AT THE AGGREGATE SCALE IN A SOIL NATURALLY RICH IN TRACE ELEMENTS. <i>Soil Science</i> , 2005, 170, 516-529.	0.9	4
39	A snapshot of soil water composition as an indicator of contrasted redox environments in a hedged farmland plot. <i>Science of the Total Environment</i> , 2009, 407, 5719-5725.	3.9	3
40	Influence de composés organiques sur l'adsorption de l'arsenic par les kaolinites. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1999, 328, 649-654.	0.2	2
41	X-ray Diffraction Determination of Minerals Carrying Trace Elements in Soil: Application to the French Soil Quality Monitoring Network. <i>Communications in Soil Science and Plant Analysis</i> , 2009, 40, 1138-1147.	0.6	1
42	Combining wavelets with statistical inference to map the mineralogical composition of pedological features from synchrotron X-ray diffraction data. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	1
43	Quantity and Quality of Dispersed Fine Particles after the Low-Energy Water-Dispersible Soil Test: Impact of the Initial Soil Matrix Potential. <i>Soil Science Society of America Journal</i> , 2018, 82, 657-662.	1.2	0
44	Editorial: Soil Evolution and Sustainability. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	0