

# Sophie Cornu

## List of Publications by Year in descending order

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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	Allophanes, a significant soil pool of silicon for plants. <i>Geoderma</i> , 2022, 412, 115722.	2.3	6
2	Pedological characteristics of artificialized soils: A snapshot. <i>Geoderma</i> , 2021, 401, 115321.	2.3	5
3	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
4	Retention of <sup>10</sup> Be, <sup>137</sup> Cs and <sup>210</sup> Pbxs in soils: Impact of physico-chemical characteristics. <i>Geoderma</i> , 2020, 367, 114242.	2.3	8
5	Editorial: Soil Evolution and Sustainability. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	0
6	Including Stable Carbon Isotopes to Evaluate the Dynamics of Soil Carbon in the Landâ€œSurface Model ORCHIDEE. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3650-3669.	1.3	13
7	Can SOC modelling be improved by accounting for pedogenesis?. <i>Geoderma</i> , 2019, 338, 513-524.	2.3	10
8	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
9	The use of radiocarbon $\delta^{14}\text{C}$ 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
10	Quantity and Quality of Dispersed Fine Particles after the Lowâ€œEnergy Waterâ€œDispersible Soil Test: Impact of the Initial Soil Matrix Potential. <i>Soil Science Society of America Journal</i> , 2018, 82, 657-662.	1.2	0
11	Atmosphereâ€œsoil carbon transfer as a function of soil depth. <i>Nature</i> , 2018, 559, 599-602.	13.7	273
12	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
13	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
14	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
15	To which extent do rain interruption periods affect colloid retention in macroporous soils?. <i>Geoderma</i> , 2016, 275, 40-47.	2.3	5
16	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
17	Rare earth elements dynamics along pedogenesis in a chronosequence of podzolic soils. <i>Chemical Geology</i> , 2016, 446, 163-174.	1.4	52
18	Identifying the Functional Macropore Network Related to Preferential Flow in Structured Soils. <i>Vadose Zone Journal</i> , 2015, 14, vj2015.05.0070.	1.3	49

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19	Aggregation and Dispersion Behavior in the 0- to 2- $\mu\text{m}$ Fraction of Luvisols. Soil Science Society of America Journal, 2015, 79, 43-54.	1.2	12
20	Vertical distributions of $^{137}\text{Cs}$ in soils: a meta-analysis. Journal of Soils and Sediments, 2015, 15, 81-95.	1.5	29
21	Agricultural drainage-induced Albeluvisol evolution: A source of deterministic chaos. Geoderma, 2013, 193-194, 109-116.	2.3	16
22	Image-analytically derived conceptual model of Albeluvisol morphological degradation induced by artificial drainage in France. Geoderma, 2012, 189-190, 296-303.	2.3	6
23	The impact of redox conditions on the rare earth element signature of redoximorphic features in a soil sequence developed from limestone. Geoderma, 2012, 170, 25-38.	2.3	58
24	Evidence of short-term clay evolution in soils under human impact. Comptes Rendus - Geoscience, 2012, 344, 747-757.	0.4	33
25	Lessivage as a major process of soil formation: A revisit of existing data. Geoderma, 2011, 167-168, 135-147.	2.3	75
26	X-ray Diffraction Determination of Minerals Carrying Trace Elements in Soil: Application to the French Soil Quality Monitoring Network. Communications in Soil Science and Plant Analysis, 2009, 40, 1138-1147.	0.6	1
27	A snapshot of soil water composition as an indicator of contrasted redox environments in a hedged farmland plot. Science of the Total Environment, 2009, 407, 5719-5725.	3.9	3
28	3D representation of soil distribution: An approach for understanding pedogenesis. Comptes Rendus - Geoscience, 2009, 341, 486-494.	0.4	16
29	Dating constituent formation in soils to determine rates of soil processes: A review. Geoderma, 2009, 153, 293-303.	2.3	28
30	Rare earth elements as tracers of pedogenetic processes. Comptes Rendus - Geoscience, 2008, 340, 523-532.	0.4	70
31	Quantification of soil volumes in the E <sub>g</sub> & B <sub>t</sub> -horizon of an Albeluvisol using image analysis. Canadian Journal of Soil Science, 2007, 87, 51-59.	0.5	13
32	Effect of Agricultural Practices on Trace Element Distribution in Soil. Communications in Soil Science and Plant Analysis, 2007, 38, 473-491.	0.6	52
33	Controls of the spatial variability of Cr concentration in topsoils of a central French landscape. Geoderma, 2006, 132, 143-157.	2.3	13
34	Location of natural trace elements in silty soils using particle-size fractionation. Geoderma, 2006, 133, 295-308.	2.3	72
35	Consequences of aggregation for the trace element distribution in the subsoil of a Planosol naturally rich in trace metal. Geoderma, 2006, 136, 160-173.	2.3	5
36	DISTRIBUTION OF MAJOR AND TRACE ELEMENTS AT THE AGGREGATE SCALE IN A SOIL NATURALLY RICH IN TRACE ELEMENTS. Soil Science, 2005, 170, 516-529.	0.9	4

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37	Trace element accumulation in Mn <sup>2+</sup> Fe <sup>2+</sup> oxide nodules of a planosolic horizon. <i>Geoderma</i> , 2005, 125, 11-24.	2.3	62
38	Comparaison d'extractions séquentielles et cinétiques pour la spéciation de As dans des sols sableux contaminés. <i>Comptes Rendus - Geoscience</i> , 2004, 336, 1007-1015.	0.4	11
39	Distribution d'un élément trace (Cr) dans un sol développé sur roches métamorphiques : variabilité à l'échelle d'un versant. <i>Comptes Rendus - Geoscience</i> , 2002, 334, 51-58.	0.4	7
40	Impact of carbo-gaseous saline waters registered by soils. <i>Catena</i> , 2001, 45, 209-228.	2.2	4
41	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
42	Influence de composés organiques sur l'adsorption de l'arsenic par les kaolinites. <i>Comptes Rendus De L'Académie Des Sciences Earth &amp; Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1999, 328, 649-654.	0.2	2
43	Evidence of titanium mobility in soil profiles, Manaus, central Amazonia. <i>Geoderma</i> , 1999, 91, 281-295.	2.3	162
44	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