

Laurent Caner

List of Publications by Year in descending order

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68
papers

1,627
citations

236925

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330143

37
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all docs

68
docs citations

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times ranked

2033
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence of iron and aluminum sesquioxides and their implications for the P sorption in subtropical soils. <i>Applied Clay Science</i> , 2015, 104, 196-204.	5.2	91
2	Unraveling complex <2 Åm clay mineralogy from soils using X-ray diffraction profile modeling on particle-size sub-fractions: Implications for soil pedogenesis and reactivity. <i>American Mineralogist</i> , 2012, 97, 384-398.	1.9	67
3	Clay mineralogy differs qualitatively in aggregate size classes: clay mineral-based evidence for aggregate hierarchy in temperate soils. <i>European Journal of Soil Science</i> , 2013, 64, 410-422.	3.9	64
4	The weathering intensity scale (WIS): An alternative approach of the Chemical Index of Alteration (CIA). <i>Numerische Mathematik</i> , 2013, 313, 113-143.	1.4	62
5	Basalt and rhyo-dacite weathering and soil clay formation under subtropical climate in southern Brazil. <i>Geoderma</i> , 2014, 235-236, 100-112.	5.1	60
6	Soil fertility and nutrient budget after 23-years of different soil tillage systems and winter cover crops in a subtropical Oxisol. <i>Geoderma</i> , 2017, 308, 78-85.	5.1	58
7	Advances in characterization of soil clay mineralogy using X-ray diffraction: from decomposition to profile fitting. <i>European Journal of Soil Science</i> , 2009, 60, 1093-1105.	3.9	56
8	Spatial heterogeneity of land cover response to climatic change in the Nilgiri highlands (Southern) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.7	52
9	Illite neof ormation in plagioclase during weathering: Evidence from semi-arid Northeast Brazil. <i>Geoderma</i> , 2009, 152, 53-62.	5.1	51
10	Quantifying land use contributions to suspended sediment in a large cultivated catchment of Southern Brazil (Guaporã River, Rio Grande do Sul). <i>Agriculture, Ecosystems and Environment</i> , 2017, 237, 95-108.	5.3	51
11	Combining visible-based-color parameters and geochemical tracers to improve sediment source discrimination and apportionment. <i>Science of the Total Environment</i> , 2015, 527-528, 135-149.	8.0	45
12	Impact of drainage on soil-forming mechanisms in a French Albeluvisol: Input of mineralogical data in mass-balance modelling. <i>Geoderma</i> , 2008, 145, 426-438.	5.1	42
13	Characteristics of nonallophanic Andisols derived from low activity clay regoliths in the Nilgiri Hills (Southern India). <i>European Journal of Soil Science</i> , 2000, 51, 553-563.	3.9	40
14	Antibiotics and microbial resistance in Brazilian soils under manure application. <i>Land Degradation and Development</i> , 2018, 29, 2472-2484.	3.9	40
15	Impact of potassium fertilization and potassium uptake by plants on soil clay mineral assemblage in South Brazil. <i>Plant and Soil</i> , 2016, 406, 157-172.	3.7	38
16	An alternative model for the formation of hydrous Mg/Ni layer silicates ('deweylite'/'garnierite') in faulted peridotites of New Caledonia: I. Texture and mineralogy of a paragenetic succession of silicate infillings. <i>European Journal of Mineralogy</i> , 2016, 28, 295-311.	1.3	37
17	Phosphorus distribution after three decades of different soil management and cover crops in subtropical region. <i>Soil and Tillage Research</i> , 2019, 192, 33-41.	5.6	35
18	Fingerprinting sediment sources in a large agricultural catchment under no-tillage in Southern Brazil (Conceição River). <i>Land Degradation and Development</i> , 2018, 29, 939-951.	3.9	34

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19	Evidence of short-term clay evolution in soils under human impact. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 747-757.	1.2	33
20	Influence of soil pedological properties on termite mound stability. <i>Geoderma</i> , 2016, 262, 45-51.	5.1	33
21	Origin of the nitrogen assimilated by soil fauna living in decomposing beech litter. <i>Soil Biology and Biochemistry</i> , 2004, 36, 1861-1872.	8.8	32
22	Continental palaeoenvironments during MIS 2 and 3 in southwestern France: the La Ferrassie rockshelter record. <i>Quaternary Science Reviews</i> , 2008, 27, 2048-2063.	3.0	32
23	Geochemical behaviour of Ni, Cr, Cu, Zn and Pb in an Andosol "Cambisol climosequence on basaltic rocks in the French Massif Central. <i>Geoderma</i> , 2007, 137, 340-351.	5.1	31
24	The influence of fungus-growing termites on soil macro and micro-aggregates stability varies with soil type. <i>Applied Soil Ecology</i> , 2016, 101, 117-123.	4.3	30
25	Pore morphology changes under tillage and no-tillage practices. <i>Geoderma</i> , 2007, 142, 226-236.	5.1	27
26	Tracing sediment sources in a subtropical rural catchment of southern Brazil by using geochemical tracers and near-infrared spectroscopy. <i>Soil and Tillage Research</i> , 2016, 155, 478-491.	5.6	25
27	Variability of amethyst mining waste: A mineralogical and geochemical approach to evaluate the potential use in agriculture. <i>Journal of Cleaner Production</i> , 2019, 210, 749-758.	9.3	25
28	Mineralogy and nutrient desorption of suspended sediments during a storm event. <i>Journal of Soils and Sediments</i> , 2013, 13, 1093-1105.	3.0	24
29	Role of permeability barriers in alluvial hydromorphic palaeosols: The Eocene Pondaung Formation, Myanmar. <i>Sedimentology</i> , 2014, 61, 362-382.	3.1	22
30	Evidences of soil geochemistry and mineralogy changes caused by eucalyptus rhizosphere. <i>Catena</i> , 2019, 175, 132-143.	5.0	22
31	Occurrence of sombric-like subsurface A horizons in some andic soils of the Nilgiri Hills (Southern) Tj ETQq1 1 0.784314 rgBT/Overlo	5.1	21
32	Improving the quantification of sediment source contributions using different mathematical models and spectral preprocessing techniques for individual or combined spectra of ultraviolet "visible, near- and middle-infrared spectroscopy. <i>Geoderma</i> , 2021, 384, 114815.	5.1	21
33	Material sources of the Roman brick-making industry in the I and II century A.D. from Regio IX, Regio XI and Alpes Cottiae. <i>Quaternary International</i> , 2015, 357, 189-206.	1.5	19
34	Development of a fracture network in crystalline rocks during weathering: Study of Bishop Creek chronosequence using X-ray computed tomography and ¹⁴ C-PMMA impregnation method. <i>Bulletin of the Geological Society of America</i> , 2016, 128, 1423-1438.	3.3	19
35	Combining spectroscopy and magnetism with geochemical tracers to improve the discrimination of sediment sources in a homogeneous subtropical catchment. <i>Catena</i> , 2020, 195, 104800.	5.0	19
36	Tracing Sediment Sources Using Mid-Infrared Spectroscopy in Arvorezinha Catchment, Southern Brazil. <i>Land Degradation and Development</i> , 2017, 28, 1603-1614.	3.9	18

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37	Tracing sediment sources in two paired agricultural catchments with different riparian forest and wetland proportion in southern Brazil. <i>Geoderma</i> , 2017, 285, 225-239.	5.1	18
38	Where do South-Indian termite mound soils come from?. <i>Applied Soil Ecology</i> , 2017, 117-118, 190-195.	4.3	17
39	Calibration of digital autoradiograph technique for quantifying rock porosity using ¹⁴ C-PMMA method. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 303, 11-23.	1.5	16
40	Chromium and copper in micromorphological features and clay fractions of volcanic soils with andic properties. <i>Geoderma</i> , 2010, 157, 185-195.	5.1	15
41	Mineralogical Characterization of Ni-Bearing Smectites from Niquelândia, Brazil. <i>Clays and Clay Minerals</i> , 2014, 62, 324-335.	1.3	15
42	Accumulation of organo-metallic complexes in laterites and the formation of Aluandic Andosols in the Nilgiri Hills (southern India): similarities and differences with Umbric Podzols. <i>European Journal of Soil Science</i> , 2011, 62, 754-764.	3.9	14
43	Pretreatment of Soil Samples Rich in Short-Range-Order Minerals Before Particle-Size Analysis by the Pipette Method. <i>Pedosphere</i> , 2013, 23, 20-28.	4.0	14
44	Impact of an integrated no-till soybean-beef cattle production system on Oxisol mineralogy in southern Brazil. <i>Applied Clay Science</i> , 2017, 149, 67-74.	5.2	14
45	The distribution of Silicon in soil is influenced by termite bioturbation in South Indian forest soils. <i>Geoderma</i> , 2020, 372, 114362.	5.1	14
46	Analysing the proximal gamma radiometry in contrasting Mediterranean landscapes: Towards a regional prediction of clay content. <i>Geoderma</i> , 2016, 266, 127-135.	5.1	13
47	Catalytic performances of natural Ni-bearing clay minerals for production of syngas from dry reforming of methane. <i>Journal of CO2 Utilization</i> , 2021, 52, 101696.	6.8	13
48	Short-time clay mineral evolution in a soil chronosequence in Oléron Island (France). <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 591-600.	1.9	12
49	Phosphorus Forms in Sediments as Indicators of Anthropic Pressures in an Agricultural Catchment in Southern Brazil. <i>Revista Brasileira De Ciencia Do Solo</i> , 2017, 41, .	1.3	12
50	Does Ferralsol Clay Mineralogy Maintain Potassium Long-Term Supply to Plants?. <i>Revista Brasileira De Ciencia Do Solo</i> , 0, 43, .	1.3	9
51	P-legacy effect of soluble fertilizer added with limestone and phosphate rock on grassland soil in subtropical climate region. <i>Soil and Tillage Research</i> , 2021, 211, 105021.	5.6	8
52	Ni-smectitic ore behaviour during the Caron process. <i>Hydrometallurgy</i> , 2019, 186, 200-209.	4.3	7
53	Near-infrared spectroscopy to estimate the chemical element concentration in soils and sediments in a rural catchment. <i>Catena</i> , 2022, 213, 106145.	5.0	7
54	Swelling capacity of mixed talc-like/stevensite layers in white/green clay infillings (deweylite and Sargarnierite) from serpentine veins of faulted peridotites, New Caledonia. <i>American Mineralogist</i> , 2020, 105, 1536-1546.	1.9	5

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55	Determining Crack Aperture Distribution in Rocks Using the ¹⁴ Câ€PMMA Autoradiographic Method: Experiments and Simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018241.	3.4	4
56	Weirs Control Phosphorus Transfer in Agricultural Watersheds. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	4
57	Phosphate fertilization and liming in a trial conducted over 21 years: A survey for greater forage production and Pampa pasture conservation. <i>European Journal of Agronomy</i> , 2021, 125, 126259.	4.1	4
58	An alternative model for the formation of hydrous Mg/Ni layer silicates (â€œdeweyliteâ€œ/â€œgarnieriteâ€œ) in faulted peridotites of New Caledonia: II. Petrography and chemistry of white and green clay infillings. <i>European Journal of Mineralogy</i> , 2019, 31, 945-962.	1.3	4
59	Chemical pattern of vegetation and topsoil of rangeland fertilized over 21 years with phosphorus sources and limestone. <i>Soil and Tillage Research</i> , 2021, 205, 104759.	5.6	3
60	Effect of 26-years of soil tillage systems and winter cover crops on C and N stocks in a Southern Brazilian Oxisol. <i>Revista Brasileira De Ciencia Do Solo</i> , 2020, 44, .	1.3	3
61	Weathering of ViamÃ£o granodiorite, South Brazil: Part 1 â€“ Clay minerals formation and increase in total porosity. <i>Geoderma</i> , 2022, 424, 115968.	5.1	2
62	Moisture and salinity profiles in the French Atlantic coastal marshes and consequences on plant available water. <i>Journal of Hydrology: Regional Studies</i> , 2017, 9, 1-17.	2.4	1
63	Propriedades fÃsicas de um Argissolo apÃs 17 anos de florestamento com Eucalyptus spp.. <i>Research, Society and Development</i> , 2021, 10, e58610514424.	0.1	1
64	Evapotranspirationâ€Soil Structure Relationship in West Marshes of France. <i>Journal of Water Resource and Protection</i> , 2014, 06, 821-840.	0.8	1
65	METODOLOGY FOR LATERÃTICS CU-BEARING CLAY MINERALS CHARACTERIZATION. <i>Holos</i> , 0, 7, 3.	0.0	1
66	Sur les possibilitÃs de reconstitution palÃo-environnementale offertes par les andosols des hautes terres tropicales. Exemple des Nilgiri (Inde du Sud). <i>Comptes Rendus De L'AcadÃmie Des Sciences Earth & Planetary Sciences SÃrie II, Sciences De La Terre Et Des PlanÃtes</i> =, 2001, 333, 725-731.	0.2	0
67	Characterizing soil macroporosity by X-ray microfocus computed tomography and quantification of the coring damages.. <i>EPJ Web of Conferences</i> , 2010, 6, 22023.	0.3	0
68	Mineralogical characterization of copper lateritic ore from the Furnas deposit - CarajÃs, Brazil. <i>REM: International Engineering Journal</i> , 2020, 73, 329-335.	0.4	0