

Juan Carlos Fernandez-Caliani

List of Publications by Year in descending order

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42
papers

1,479
citations

331670

21
h-index

315739

38
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42
all docs

42
docs citations

42
times ranked

1759
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metal partitioning in river sediments severely polluted by acid mine drainage in the Iberian Pyrite Belt. <i>Applied Geochemistry</i> , 2003, 18, 409-421.	3.0	191
2	Influence of geological setting on geochemical baselines of trace elements in soils. Application to soils of Southâ€“West Spain. <i>Journal of Geochemical Exploration</i> , 2008, 98, 89-106.	3.2	131
3	Heavy Metal Pollution in Soils Around the Abandoned Mine Sites of the Iberian Pyrite Belt (Southwest) Tj ETQq1 1 0,784314 rgBT /Ov	2.4	181
4	Contribution of mine wastes to atmospheric metal deposition in the surrounding area of an abandoned heavily polluted mining district (Rio Tinto mines, Spain). <i>Science of the Total Environment</i> , 2013, 449, 363-372.	8.0	95
5	Clay mineral and heavy metal distributions in the lower estuary of Huelva and adjacent Atlantic shelf, SW Spain. <i>Science of the Total Environment</i> , 1997, 198, 181-200.	8.0	89
6	Assessing the environmental availability of heavy metals in geogenically contaminated soils of the Sierra de Aracena Natural Park (SW Spain). Is there a health risk?. <i>Science of the Total Environment</i> , 2016, 560-561, 254-265.	8.0	68
7	Residual pollution load of soils impacted by the AznalcÃ³llar (Spain) mining spill after clean-up operations. <i>Science of the Total Environment</i> , 2002, 286, 167-179.	8.0	63
8	Residence and fractionation of rare earth elements during kaolinization of alkaline peraluminous granites in NW Spain. <i>Clay Minerals</i> , 2007, 42, 341-352.	0.6	63
9	Metal immobilization in hazardous contaminated minesoils after marble slurry waste application. A field assessment at the Tharsis mining district (Spain). <i>Journal of Hazardous Materials</i> , 2010, 181, 817-826.	12.4	57
10	Multi-source water pollution in a highly anthropized wetland system associated with the estuary of Huelva (SW Spain). <i>Marine Pollution Bulletin</i> , 2010, 60, 1259-1269.	5.0	51
11	Mobility and speciation of rare earth elements in acid minesoils and geochemical implications for river waters in the southwestern Iberian margin. <i>Geoderma</i> , 2009, 149, 393-401.	5.1	50
12	Oral bioaccessibility and human health risk assessment of trace elements in agricultural soils impacted by acid mine drainage. <i>Chemosphere</i> , 2019, 237, 124441.	8.2	40
13	Risk-based assessment of multimetallic soil pollution in the industrialized peri-urban area of Huelva, Spain. <i>Environmental Geochemistry and Health</i> , 2012, 34, 123-139.	3.4	37
14	Origin and geochemical evolution of the Nuevo Montecastelo kaolin deposit (Galicia, NW Spain). <i>Applied Clay Science</i> , 2010, 49, 91-97.	5.2	34
15	Intensive kaolinization during a lateritic weathering event in South-West Spain. <i>Catena</i> , 2010, 80, 23-33.	5.0	31
16	Traditional agricultural practices enable sustainable remediation of highly polluted soils in Southern Spain for cultivation of food crops. <i>Journal of Environmental Management</i> , 2011, 92, 1828-1836.	7.8	31
17	Impact of abandoned mine waste on atmospheric respirable particulate matter in the historic mining district of Rio Tinto (Iberian Pyrite Belt). <i>Environmental Research</i> , 2011, 111, 1018-1023.	7.5	28
18	Geoavailability of lithogenic trace elements of environmental concern and supergene enrichment in soils of the Sierra de Aracena Natural Park (SW Spain). <i>Geoderma</i> , 2015, 259-260, 164-173.	5.1	26

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19	Formation of Nontronite from Oxidative Dissolution of Pyrite Disseminated in Precambrian Felsic Metavolcanics of the Southern Iberian Massif (Spain). <i>Clays and Clay Minerals</i> , 2004, 52, 106-114.	1.3	24
20	Significance of graphite occurrences in the Aracena Metamorphic Belt, Iberian Massif. <i>Geological Magazine</i> , 2004, 141, 687-697.	1.5	23
21	Soil quality changes in an Iberian pyrite mine site 15 years after land reclamation. <i>Catena</i> , 2021, 206, 105538.	5.0	23
22	Occurrence and speciation of copper in slags obtained during the pyrometallurgical processing of chalcopyrite concentrates at the Huelva smelter (Spain). <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2012, 48, 161-171.	0.8	21
23	Graphite occurrences in the low-pressure/high-temperature metamorphic belt of the Sierra de Aracena (southern Iberian Massif). <i>Mineralogical Magazine</i> , 2000, 64, 801-814.	1.4	19
24	New insights on mineralogy and genesis of kaolin deposits: The Burela kaolin deposit (Northwestern Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.2	17
25	Long-term interaction of wollastonite with acid mine water and effects on arsenic and metal removal. <i>Applied Geochemistry</i> , 2008, 23, 1288-1298.	3.0	16
26	Stable isotope constraints on the origin of kaolin deposits from Variscan granitoids of Galicia (NW Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.3	15
27	Geochemical anomalies of critical elements (Be, Co, Hf, Sb, Sc, Ta, V, W, Y and REE) in soils of western Andalusia (Spain). <i>Applied Clay Science</i> , 2020, 191, 105610.	5.2	15
28	Mineralogy of atmospheric dust impacting the Rio Tinto mining area (Spain) during episodes of high metal deposition. <i>Mineralogical Magazine</i> , 2013, 77, 2793-2810.	1.4	14
29	Assessment of trace element pollution and human health risks associated with cultivation of mine soil: A case study in the Iberian Pyrite Belt. <i>Human and Ecological Risk Assessment (HERA)</i> , 2017, 23, 2069-2086.	3.4	12
30	Effects of fluid infiltration on wollastonite genesis at the Miocene contact-metamorphic deposits, SW Spain. <i>Mineralogy and Petrology</i> , 1998, 62, 247-267.	1.1	10
31	Mineralogical and Crystal-Chemical Constraints on the Glauconite-Forming Process in Neogene Sediments of the Lower Guadalquivir Basin (SW Spain). <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 578.	2.0	10
32	Soil Acidification, Mineral Neoformation and Heavy Metal Contamination Driven by Weathering of Sulphide Wastes in a Ramsar Wetland. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 249.	2.5	8
33	Rare-earth element and stable isotope signatures of kaolin from a Pliocene lateritic weathering profile at mid-latitude region (Andalusia, Spain): Implications for paleoweathering and paleoclimatic reconstructions. <i>Catena</i> , 2018, 167, 160-170.	5.0	6
34	The life cycle impact assessment applied to the Domingo Rubio tidal system by the study of seasonal variations of the aquatic eutrophication potential. <i>Science of the Total Environment</i> , 2010, 408, 5897-5902.	8.0	5
35	Experimental and theoretical evidence of zinc structurally bound in vermiculite from naturally metal-enriched soils. <i>Clay Minerals</i> , 2013, 48, 529-541.	0.6	5
36	Source and geochemical partitioning of silver in a naturally-enriched soil. <i>Applied Geochemistry</i> , 2019, 103, 85-96.	3.0	5

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37	Predicting the relative oral bioavailability of naturally occurring As, Cd and Pb from in vitro bioaccessibility measurement: implications for human soil ingestion exposure assessment. <i>Environmental Geochemistry and Health</i> , 2021, 43, 4251-4264.	3.4	5
38	Enrichment and Fractionation of Rare Earth Elements in an Estuarine Marsh Soil Receiving Acid Discharges from Legacy Sulfide Mine Wastes. <i>Soil Systems</i> , 2021, 5, 66.	2.6	5
39	Long-Term Sustainability of Marble Waste Sludge in Reducing Soil Acidity and Heavy Metal Release in a Contaminated Mine Technosol. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6998.	2.5	3
40	Mineral chemistry and phase equilibrium constraints on the origin of accretions formed during copper flash smelting. <i>Minerals and Metallurgical Processing</i> , 2017, 34, 36-43.	0.7	1
41	Geochemical behavior and fate of trace elements in naturally contaminated soils under projected land-use changes. <i>Journal of Soils and Sediments</i> , 2020, 20, 1413-1423.	3.0	1
42	Effects of Acid Mine Drainage on Clay Minerals Suspended in the Tinto River (R�o Tinto, Spain). An Experimental Approach. <i>Clay Minerals</i> , 1999, 34, 99-108.	0.6	0