

Carlos R Canovas

List of Publications by Year in descending order

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73
papers

2,819
citations

185998

28
h-index

182168

51
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all docs

74
docs citations

74
times ranked

2196
citing authors

#	ARTICLE	IF	CITATIONS
1	Partition of Rare Earth Elements Between Sulfate Salts Formed by the Evaporation of Acid Mine Drainage. <i>Mine Water and the Environment</i> , 2022, 41, 42-57.	0.9	4
2	Temporal evolution of acid mine drainage (AMD) leachates from the abandoned tharsis mine (Iberian Pyrite Belt). <i>Journal of Environmental Management</i> , 2022, 306, 119448.	3.7	15
3	Environmental management and potential valorization of wastes generated in passive treatments of fertilizer industry effluents. <i>Chemosphere</i> , 2022, 295, 133876.	4.2	10
4	Natural radioactivity and element characterization in pit lakes in Northern Sweden. <i>PLoS ONE</i> , 2022, 17, e0266002.	1.1	1
5	Stream-pit lake interactions in an abandoned mining area affected by acid drainage (Iberian Pyrite Belt). <i>Science of the Total Environment</i> , 2022, 833, 155224.	3.9	4
6	Closing the upcoming EU gypsum gap with phosphogypsum. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106328.	5.3	36
7	Thallium distribution in an estuary affected by acid mine drainage (AMD): The R�a de Huelva estuary (SW Spain). <i>Environmental Pollution</i> , 2022, 306, 119448.	3.7	2
8	Eco-sustainable passive treatment for mine waters: Full-scale and long-term demonstration. <i>Journal of Environmental Management</i> , 2021, 280, 111699.	3.8	14
9	Combined procedure of metal removal and recovery of technology elements from fertilizer industry effluents. <i>Journal of Geochemical Exploration</i> , 2021, 221, 106698.	1.5	7
10	Surface and Groundwater Quality Evolution in the Agrio and Guadiamar Rivers After the Aznalc�llar Mine Spill (SW Spain): Lessons Learned. <i>Mine Water and the Environment</i> , 2021, 40, 235-249.	0.9	5
11	Metal(loid) release from sulfide-rich wastes to the environment: The case of the Iberian Pyrite Belt (SW Spain). <i>Current Opinion in Environmental Science and Health</i> , 2021, 20, 100240.	2.1	7
12	Geochemical behaviour and transport of technology critical metals (TCMs) by the Tinto River (SW Iberian Pyrite Belt). <i>Journal of Environmental Management</i> , 2021, 306, 119448.	3.9	11
13	Mine waters as a secondary source of rare earth elements worldwide: The case of the Iberian Pyrite Belt. <i>Journal of Geochemical Exploration</i> , 2021, 224, 106742.	1.5	19
14	Trace metal mobility in sub-seabed sediments by CO2 seepage under high-pressure conditions. <i>Science of the Total Environment</i> , 2020, 700, 134761.	3.9	10
15	Seasonal variability of extremely metal rich acid mine drainages from the Tharsis mines (SW Spain). <i>Environmental Pollution</i> , 2020, 259, 113829.	3.7	28
16	Design and optimization of sustainable passive treatment systems for phosphogypsum leachates in an orphan disposal site. <i>Journal of Environmental Management</i> , 2020, 275, 111251.	3.8	13
17	Distribution and availability of rare earth elements and trace elements in the estuarine waters of the R�a of Huelva (SW Spain). <i>Environmental Pollution</i> , 2020, 267, 115506.	3.7	21
18	The Evolution of Pollutant Concentrations in a River Severely Affected by Acid Mine Drainage: R�o Tinto (SW Spain). <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 598.	0.8	18

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19	Metal partitioning and speciation in a mining-impacted estuary by traditional and passive sampling methods. <i>Science of the Total Environment</i> , 2020, 722, 137905.	3.9	16
20	Rare earth elements in a historical mining district (south-west Spain): Hydrogeochemical behaviour and seasonal variability. <i>Chemosphere</i> , 2020, 253, 126742.	4.2	9
21	Release of technology critical metals during sulfide oxidation processes: the case of the Poderosa sulfide mine (south-west Spain). <i>Environmental Chemistry</i> , 2020, 17, 93.	0.7	10
22	Assessment of metals mobility during the alkaline treatment of highly acid phosphogypsum leachates. <i>Science of the Total Environment</i> , 2019, 660, 395-405.	3.9	23
23	Causes and impacts of a mine water spill from an acidic pit lake (Iberian Pyrite Belt). <i>Environmental Pollution</i> , 2019, 250, 127-136.	3.7	33
24	Leaching of rare earth elements (REEs) and impurities from phosphogypsum: A preliminary insight for further recovery of critical raw materials. <i>Journal of Cleaner Production</i> , 2019, 219, 225-235.	4.6	105
25	Mineralogically-induced metal partitioning during the evaporative precipitation of efflorescent sulfate salts from acid mine drainage. <i>Chemical Geology</i> , 2019, 530, 119339.	1.4	12
26	Assessing the quality of potentially reclaimed mine soils: Environmental implications for the construction of a nearby water reservoir. <i>Chemosphere</i> , 2019, 216, 19-30.	4.2	11
27	Life cycle assessment of a passive remediation system for acid mine drainage: Towards more sustainable mining activity. <i>Journal of Cleaner Production</i> , 2019, 211, 1100-1111.	4.6	36
28	Mineral reactivity in sulphide mine wastes: influence of mineralogy and grain size on metal release. <i>European Journal of Mineralogy</i> , 2019, 31, 263-273.	0.4	12
29	Sulfate reduction processes in salt marshes affected by phosphogypsum: Geochemical influences on contaminant mobility. <i>Journal of Hazardous Materials</i> , 2018, 350, 154-161.	6.5	25
30	Hydrogeochemical behavior of an anthropogenic mine aquifer: Implications for potential remediation measures. <i>Science of the Total Environment</i> , 2018, 636, 85-93.	3.9	12
31	Dissolved and particulate metal fluxes in an AMD-affected stream under different hydrological conditions: The Odiel River (SW Spain). <i>Catena</i> , 2018, 165, 414-424.	2.2	15
32	From floodplain to aquatic sediments: Radiogeochronological fingerprints in a sediment core from the mining impacted Sancho Reservoir (SW Spain). <i>Science of the Total Environment</i> , 2018, 631-632, 866-878.	3.9	19
33	Mobility of rare earth elements, yttrium and scandium from a phosphogypsum stack: Environmental and economic implications. <i>Science of the Total Environment</i> , 2018, 618, 847-857.	3.9	53
34	Valorization of wastes from the fertilizer industry: Current status and future trends. <i>Journal of Cleaner Production</i> , 2018, 174, 678-690.	4.6	81
35	Hydrological characterization and prediction of flood levels of acidic pit lakes in the Tharsis mines, Iberian Pyrite Belt. <i>Journal of Hydrology</i> , 2018, 566, 807-817.	2.3	14
36	Geochemical behaviour of rare earth elements (REE) along a river reach receiving inputs of acid mine drainage. <i>Chemical Geology</i> , 2018, 493, 468-477.	1.4	46

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37	Uncertainty in the measurement of toxic metals mobility in mining/mineral wastes by standardized BCR [®] SEP. <i>Journal of Hazardous Materials</i> , 2018, 360, 587-593.	6.5	30
38	Environmental Assessment and Management of Phosphogypsum According to European and United States of America Regulations. <i>Procedia Earth and Planetary Science</i> , 2017, 17, 666-669.	0.6	56
39	An anomalous metal-rich phosphogypsum: Characterization and classification according to international regulations. <i>Journal of Hazardous Materials</i> , 2017, 331, 99-108.	6.5	60
40	Metal/Ioid Release from Cyanidation Wastes in Response to Rainfalls. <i>Procedia Earth and Planetary Science</i> , 2017, 17, 436-439.	0.6	1
41	Temporal Variations of REE in Several AMD Sources of the Odiel River (SW Spain). <i>Procedia Earth and Planetary Science</i> , 2017, 17, 706-709.	0.6	4
42	Characterization of Main AMD Inputs to the Odiel River Upper Reach (SW Spain). <i>Procedia Earth and Planetary Science</i> , 2017, 17, 602-605.	0.6	5
43	Exploration of fertilizer industry wastes as potential source of critical raw materials. <i>Journal of Cleaner Production</i> , 2017, 143, 497-505.	4.6	41
44	A geochemical approach to the restoration plans for the Odiel River basin (SW Spain), a watershed deeply polluted by acid mine drainage. <i>Environmental Science and Pollution Research</i> , 2017, 24, 4506-4516.	2.7	25
45	Metal-fluxes characterization at a catchment scale: Study of mixing processes and end-member analysis in the Meca River watershed (SW Spain). <i>Journal of Hydrology</i> , 2017, 550, 590-602.	2.3	9
46	Management strategies and valorization for waste sludge from active treatment of extremely metal-polluted acid mine drainage: A contribution for sustainable mining. <i>Journal of Cleaner Production</i> , 2017, 141, 1057-1066.	4.6	65
47	Reconstruction of an Acid Water Spill in a Mountain Reservoir. <i>Water (Switzerland)</i> , 2017, 9, 613.	1.2	4
48	Oxycline formation induced by Fe(II) oxidation in a water reservoir affected by acid mine drainage modeled using a 2D hydrodynamic and water quality model "CE-QUAL-W2". <i>Science of the Total Environment</i> , 2016, 562, 1-12.	3.9	16
49	Hydrological modeling of a watershed affected by acid mine drainage (Odiel River, SW Spain). Assessment of the pollutant contributing areas. <i>Journal of Hydrology</i> , 2016, 540, 196-206.	2.3	23
50	Pollutant flows from a phosphogypsum disposal area to an estuarine environment: An insight from geochemical signatures. <i>Science of the Total Environment</i> , 2016, 553, 42-51.	3.9	126
51	Metal and acidity fluxes controlled by precipitation/dissolution cycles of sulfate salts in an anthropogenic mine aquifer. <i>Journal of Contaminant Hydrology</i> , 2016, 188, 29-43.	1.6	16
52	Water acidification trends in a reservoir of the Iberian Pyrite Belt (SW Spain). <i>Science of the Total Environment</i> , 2016, 541, 400-411.	3.9	30
53	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). <i>Catena</i> , 2016, 137, 12-23.	2.2	26
54	Geochemical processes in a highly acidic pit lake of the Iberian Pyrite Belt (SW Spain). <i>Chemical Geology</i> , 2015, 395, 144-153.	1.4	14

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55	Metal(loid) Attenuation Processes in an Extremely Acidic River: The Rio Tinto (SW Spain). <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	9
56	Geochemical behavior of metals and metalloids in an estuary affected by acid mine drainage (AMD). <i>Environmental Science and Pollution Research</i> , 2014, 21, 2611-2627.	2.7	32
57	Trace metal partitioning over a tidal cycle in an estuary affected by acid mine drainage (Tinto estuary.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	3.9	29
58	Acid mine drainage in the Iberian Pyrite Belt: 1. Hydrochemical characteristics and pollutant load of the Tinto and Odiel rivers. <i>Environmental Science and Pollution Research</i> , 2013, 20, 7509-7519.	2.7	85
59	Metal cycling during sediment early diagenesis in a water reservoir affected by acid mine drainage. <i>Science of the Total Environment</i> , 2013, 461-462, 416-429.	3.9	35
60	Assessment of the dissolved pollutant flux of the Odiel River (SW Spain) during a wet period. <i>Science of the Total Environment</i> , 2013, 463-464, 572-580.	3.9	6
61	Pollutant transport processes in the Odiel River (SW Spain) during rain events. <i>Water Resources Research</i> , 2012, 48, .	1.7	33
62	Refining the estimation of metal loads dissolved in acid mine drainage by continuous monitoring of specific conductivity and water level. <i>Applied Geochemistry</i> , 2012, 27, 1932-1943.	1.4	15
63	Influence of releases from a fresh water reservoir on the hydrochemistry of the Tinto River (SW) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	3.9	28
64	Water Quality in the Future Alcolea Reservoir (Odiel River, SW Spain): A Clear Example of the Inappropriate Management of Water Resources in Spain. <i>Water Resources Management</i> , 2011, 25, 201-215.	1.9	29
65	Wash-out processes of evaporitic sulfate salts in the Tinto river: Hydrogeochemical evolution and environmental impact. <i>Applied Geochemistry</i> , 2010, 25, 288-301.	1.4	66
66	Natural attenuation processes in two water reservoirs receiving acid mine drainage. <i>Science of the Total Environment</i> , 2009, 407, 2051-2062.	3.9	60
67	Application of the SWAT model to an AMD-affected river (Meca River, SW Spain). Estimation of transported pollutant load. <i>Journal of Hydrology</i> , 2009, 377, 445-454.	2.3	49
68	Hydrochemical characteristics and seasonal influence on the pollution by acid mine drainage in the Odiel river Basin (SW Spain). <i>Applied Geochemistry</i> , 2009, 24, 697-714.	1.4	150
69	Hydrochemical variations and contaminant load in the R�o Tinto (Spain) during flood events. <i>Journal of Hydrology</i> , 2008, 350, 25-40.	2.3	97
70	Acid mine drainage pollution in the Tinto and Odiel rivers (Iberian Pyrite Belt, SW Spain) and bioavailability of the transported metals to the Huelva Estuary. <i>Environment International</i> , 2007, 33, 445-455.	4.8	263
71	Hydrogeochemical characteristics of the Tinto and Odiel Rivers (SW Spain). Factors controlling metal contents. <i>Science of the Total Environment</i> , 2007, 373, 363-382.	3.9	156
72	Evaluation of the dissolved contaminant load transported by the Tinto and Odiel rivers (South West) <i>Tj ETQq0 0 0 rgBT /Overlock</i>	1.4	156

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73	Seasonal water quality variations in a river affected by acid mine drainage: the Odiel River (South) Tj ETQq1 1 0.784314 rgBT JOverloc	3.9	212