

Carlos R Canovas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

2,082
citations

23
h-index

44
g-index

74
ext. papers

2,416
ext. citations

7.4
avg, IF

5.12
L-index

#	Paper	IF	Citations
74	Environmental management and potential valorization of wastes generated in passive treatments of fertilizer industry effluents.. <i>Chemosphere</i> , 2022 , 295, 133876	8.4	0
73	Natural radioactivity and element characterization in pit lakes in Northern Sweden.. <i>PLoS ONE</i> , 2022 , 17, e0266002	3.7	0
72	Stream-pit lake interactions in an abandoned mining area affected by acid drainage (Iberian Pyrite Belt).. <i>Science of the Total Environment</i> , 2022 , 155224	10.2	0
71	Closing the upcoming EU gypsum gap with phosphogypsum. <i>Resources, Conservation and Recycling</i> , 2022 , 182, 106328	11.9	3
70	Thallium distribution in an estuary affected by acid mine drainage (AMD): The R� de Huelva estuary (SW Spain).. <i>Environmental Pollution</i> , 2022 , 119448	9.3	0
69	Temporal evolution of acid mine drainage (AMD) leachates from the abandoned tharsis mine (Iberian Pyrite Belt, Spain).. <i>Environmental Pollution</i> , 2021 , 295, 118697	9.3	2
68	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	8.1	2
67	Geochemical behaviour and transport of technology critical metals (TCMs) by the Tinto River (SW Spain) to the Atlantic Ocean. <i>Science of the Total Environment</i> , 2021 , 764, 143796	10.2	4
66	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	3.8	7
65	Eco-sustainable passive treatment for mine waters: Full-scale and long-term demonstration. <i>Journal of Environmental Management</i> , 2021 , 280, 111699	7.9	4
64	Combined procedure of metal removal and recovery of technology elements from fertilizer industry effluents. <i>Journal of Geochemical Exploration</i> , 2021 , 221, 106698	3.8	2
63	Surface and Groundwater Quality Evolution in the Agrio and Guadiamar Rivers After the Aznalc�ar Mine Spill (SW Spain): Lessons Learned. <i>Mine Water and the Environment</i> , 2021 , 40, 235-249	2.4	4
62	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	10.2	14
61	Rare earth elements in a historical mining district (south-west Spain): Hydrogeochemical behaviour and seasonal variability. <i>Chemosphere</i> , 2020 , 253, 126742	8.4	3
60	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	3.2	9
59	Trace metal mobility in sub-seabed sediments by CO seepage under high-pressure conditions. <i>Science of the Total Environment</i> , 2020 , 700, 134761	10.2	8
58	Seasonal variability of extremely metal rich acid mine drainages from the Tharsis mines (SW Spain). <i>Environmental Pollution</i> , 2020 , 259, 113829	9.3	21

57	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	7.9	6
56	Distribution and availability of rare earth elements and trace elements in the estuarine waters of the R� of Huelva (SW Spain). <i>Environmental Pollution</i> , 2020 , 267, 115506	9.3	10
55	The Evolution of Pollutant Concentrations in a River Severely Affected by Acid Mine Drainage: R� Tinto (SW Spain). <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 598	2.4	11
54	Recovery of Critical Raw Materials from Acid Mine Drainage (AMD) 2020 , 219-233		0
53	Assessment of metals mobility during the alkaline treatment of highly acid phosphogypsum leachates. <i>Science of the Total Environment</i> , 2019 , 660, 395-405	10.2	13
52	Causes and impacts of a mine water spill from an acidic pit lake (Iberian Pyrite Belt). <i>Environmental Pollution</i> , 2019 , 250, 127-136	9.3	21
51	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	2.2	4
50	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	10.3	51
49	Mineralogically-induced metal partitioning during the evaporative precipitation of efflorescent sulfate salts from acid mine drainage. <i>Chemical Geology</i> , 2019 , 530, 119339	4.2	11
48	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	8.4	7
47	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	10.3	23
46	Sulfate reduction processes in salt marshes affected by phosphogypsum: Geochemical influences on contaminant mobility. <i>Journal of Hazardous Materials</i> , 2018 , 350, 154-161	12.8	18
45	Hydrogeochemical behavior of an anthropogenic mine aquifer: Implications for potential remediation measures. <i>Science of the Total Environment</i> , 2018 , 636, 85-93	10.2	8
44	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	5.8	12
43	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	10.2	14
42	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	10.2	36
41	Uncertainty in the measurement of toxic metals mobility in mining/mineral wastes by standardized BCRSEP. <i>Journal of Hazardous Materials</i> , 2018 , 360, 587-593	12.8	23
40	Valorization of wastes from the fertilizer industry: Current status and future trends. <i>Journal of Cleaner Production</i> , 2018 , 174, 678-690	10.3	49

39	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	6	11
38	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	4.2	21
37	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		35
36	An anomalous metal-rich phosphogypsum: Characterization and classification according to international regulations. <i>Journal of Hazardous Materials</i> , 2017 , 331, 99-108	12.8	43
35	Metal/loid Release from Cyanidation Wastes in Response to Rainfalls. <i>Procedia Earth and Planetary Science</i> , 2017 , 17, 436-439		
34	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		3
33	Characterization of Main AMD Inputs to the Odiel River Upper Reach (SW Spain). <i>Procedia Earth and Planetary Science</i> , 2017 , 17, 602-605		4
32	Exploration of fertilizer industry wastes as potential source of critical raw materials. <i>Journal of Cleaner Production</i> , 2017 , 143, 497-505	10.3	28
31	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	5.1	19
30	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	6	5
29	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	10.3	40
28	Reconstruction of an Acid Water Spill in a Mountain Reservoir. <i>Water (Switzerland)</i> , 2017 , 9, 613	3	3
27	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). <i>Catena</i> , 2016 , 137, 12-23	5.8	21
26	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	6	18
25	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	10.2	76
24	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	3.9	12
23	Water acidification trends in a reservoir of the Iberian Pyrite Belt (SW Spain). <i>Science of the Total Environment</i> , 2016 , 541, 400-411	10.2	23
22	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	10.2	13

21	Geochemical processes in a highly acidic pit lake of the Iberian Pyrite Belt (SW Spain). <i>Chemical Geology</i> , 2015 , 395, 144-153	4.2	10
20	Geochemical behavior of metals and metalloids in an estuary affected by acid mine drainage (AMD). <i>Environmental Science and Pollution Research</i> , 2014 , 21, 2611-27	5.1	19
19	Trace metal partitioning over a tidal cycle in an estuary affected by acid mine drainage (Tinto estuary, SW Spain). <i>Science of the Total Environment</i> , 2014 , 497-498, 18-28	10.2	22
18	Metal(loid) Attenuation Processes in an Extremely Acidic River: The Rio Tinto (SW Spain). <i>Water, Air, and Soil Pollution</i> , 2014 , 225, 1	2.6	8
17	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, 7509-19	5.1	59
16	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, 416-29	10.2	33
15	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, 572-80	10.2	6
14	Influence of releases from a fresh water reservoir on the hydrochemistry of the Tinto River (SW Spain). <i>Science of the Total Environment</i> , 2012 , 416, 418-28	10.2	24
13	Pollutant transport processes in the Odiel River (SW Spain) during rain events. <i>Water Resources Research</i> , 2012 , 48,	5.4	29
12	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	3.5	12
11	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	3.7	26
10	Wash-out processes of evaporitic sulfate salts in the Tinto river: Hydrogeochemical evolution and environmental impact. <i>Applied Geochemistry</i> , 2010 , 25, 288-301	3.5	56
9	Natural attenuation processes in two water reservoirs receiving acid mine drainage. <i>Science of the Total Environment</i> , 2009 , 407, 2051-62	10.2	52
8	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	6	44
7	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	3.5	131
6	Hydrochemical variations and contaminant load in the R� Tinto (Spain) during flood events. <i>Journal of Hydrology</i> , 2008 , 350, 25-40	6	88
5	Hydrogeochemical characteristics of the Tinto and Odiel Rivers (SW Spain). Factors controlling metal contents. <i>Science of the Total Environment</i> , 2007 , 373, 363-82	10.2	138
4	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, 445-559	12.9	223

3	Evaluation of the dissolved contaminant load transported by the Tinto and Odiel rivers (South West Spain). <i>Applied Geochemistry</i> , 2006 , 21, 1733-1749	3.5	136
2	Seasonal water quality variations in a river affected by acid mine drainage: the Odiel River (South West Spain). <i>Science of the Total Environment</i> , 2004 , 333, 267-81	10.2	191
1	Partition of Rare Earth Elements Between Sulfate Salts Formed by the Evaporation of Acid Mine Drainage. <i>Mine Water and the Environment</i> , 1	2.4	