

Manuel Antonio Caraballo Monge

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37
papers

1,033
citations

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h-index

32
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38
ext. papers

1,164
ext. citations

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4.17
L-index

#	Paper	IF	Citations
37	Potential environmental impact at S8 Domingos mining district (Iberian Pyrite Belt, SW Iberian Peninsula): evidence from a chemical and mineralogical characterization. <i>Environmental Geology</i> , 2008 , 55, 1797-1809		73
36	Toxicity and potential risk assessment of a river polluted by acid mine drainage in the Iberian Pyrite Belt (SW Spain). <i>Science of the Total Environment</i> , 2011 , 409, 4763-71	10.2	65
35	Field multi-step limestone and MgO passive system to treat acid mine drainage with high metal concentrations. <i>Applied Geochemistry</i> , 2009 , 24, 2301-2311	3.5	64
34	Acid mine drainage in the Iberian Pyrite Belt: 2. Lessons learned from recent passive remediation experiences. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 7837-53	5.1	60
33	Long term remediation of highly polluted acid mine drainage: a sustainable approach to restore the environmental quality of the Odiel river basin. <i>Environmental Pollution</i> , 2011 , 159, 3613-9	9.3	59
32	From highly polluted Zn-rich acid mine drainage to non-metallic waters: implementation of a multi-step alkaline passive treatment system to remediate metal pollution. <i>Science of the Total Environment</i> , 2012 , 433, 323-30	10.2	58
31	Natural pretreatment and passive remediation of highly polluted acid mine drainage. <i>Journal of Environmental Management</i> , 2012 , 104, 93-100	7.9	56
30	Field application of calcite Dispersed Alkaline Substrate (calcite-DAS) for passive treatment of acid mine drainage with high Al and metal concentrations. <i>Applied Geochemistry</i> , 2008 , 23, 1660-1674	3.5	56
29	Biologically-induced precipitation of sphalerite-wurtzite nanoparticles by sulfate-reducing bacteria: implications for acid mine drainage treatment. <i>Science of the Total Environment</i> , 2012 , 423, 176-84	10.2	49
28	Long term fluctuations of groundwater mine pollution in a sulfide mining district with dry Mediterranean climate: Implications for water resources management and remediation. <i>Science of the Total Environment</i> , 2016 , 539, 427-435	10.2	42
27	Sequential extraction and DXRD applicability to poorly crystalline Fe- and Al-phase characterization from an acid mine water passive remediation system. <i>American Mineralogist</i> , 2009 , 94, 1029-1038	2.9	42
26	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
25	Metastability, nanocrystallinity and pseudo-solid solution effects on the understanding of schwertmannite solubility. <i>Chemical Geology</i> , 2013 , 360-361, 22-31	4.2	39
24	The enigmatic iron oxyhydroxysulfate nanomineral schwertmannite: Morphology, structure, and composition. <i>American Mineralogist</i> , 2012 , 97, 1469-1482	2.9	37
23	Observations and assessment of iron oxide and green rust nanoparticles in metal-polluted mine drainage within a steep redox gradient. <i>Environmental Chemistry</i> , 2014 , 11, 377	3.2	36
22	Environmental assessment and management of metal-rich wastes generated in acid mine drainage passive remediation systems. <i>Journal of Hazardous Materials</i> , 2012 , 229-230, 107-14	12.8	35
21	Dissolved and particulate metals and arsenic species mobility along a stream affected by Acid Mine Drainage in the Iberian Pyrite Belt (SW Spain). <i>Applied Geochemistry</i> , 2012 , 27, 1944-1952	3.5	27

20	The rapid expansion of environmental mineralogy in unconventional ways: Beyond the accepted definition of a mineral, the latest technology, and using nature as our guide. <i>American Mineralogist</i> , 2015 , 100, 14-25	2.9	25
19	Hydrochemical performance and mineralogical evolution of a dispersed alkaline substrate (DAS) remediating the highly polluted acid mine drainage in the full-scale passive treatment of Mina Esperanza (SW Spain). <i>American Mineralogist</i> , 2011 , 96, 1270-1277	2.9	25
18	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
17	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
16	Seasonal variations in the formation of Al and Si rich Fe-stromatolites in the highly polluted acid mine drainage of Agua Agria Creek (Tharsis, SW Spain). <i>Chemical Geology</i> , 2011 , 284, 97-104	4.2	17
15	Implementation of an MgO-based metal removal step in the passive treatment system of Shilbottle, UK: column experiments. <i>Journal of Hazardous Materials</i> , 2010 , 181, 923-30	12.8	16
14	Mineralogy and geochemistry of Zn-rich mine-drainage precipitates from an MgO passive treatment system by synchrotron-based X-ray analysis. <i>Environmental Science & Technology</i> , 2011 , 45, 7826-33	10.3	15
13	Rotating-disk sorptive extraction coupled to gas chromatography mass spectrometry for the determination of phthalates in bottled water. <i>Analytical Methods</i> , 2019 , 11, 6111-6118	3.2	12
12	Metal retention, mineralogy, and design considerations of a mature permeable reactive barrier (PRB) for acidic mine water drainage in Northumberland, U.K.. <i>American Mineralogist</i> , 2010 , 95, 1642-1649	2.9	10
11	Aluminum mobility in mildly acidic mine drainage: Interactions between hydrobasaluminite, silica and trace metals from the nano to the meso-scale. <i>Chemical Geology</i> , 2019 , 519, 1-10	4.2	9
10	Revalorization of Haveri Au-Cu mine tailings (SW Finland) for potential reprocessing. <i>Journal of Geochemical Exploration</i> , 2020 , 218, 106614	3.8	7
9	Hydrogeochemical and environmental water quality standards in the overlap between high mountainous natural protected areas and copper mining activities (Mapocho river upper basin, Santiago, Chile). <i>Journal of Hydrology</i> , 2020 , 588, 125063	6	5
8	Exploring sulfate and metals removal from Andean acid mine drainage using CaCO ₃ -rich residues from agri-food industries and witherite (BaCO ₃). <i>Journal of Cleaner Production</i> , 2020 , 274, 123450	10.3	4
7	The role of local geochemical and mineralogical backgrounds as essential information to build efficient sediment quality guidelines at high-mountainous hydrothermally-altered basins (Mapocho basin, Chile). <i>Science of the Total Environment</i> , 2021 , 785, 147266	10.2	2
6	Detection and assignment of inorganic aqueous polymers relevant to environmental nanogeoscience by direct infusion electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2019 , 54, 495-506	2.2	1
5	Environmental and geochemical characterization of alkaline mine wastes from Phalaborwa (Palabora) Complex, South Africa. <i>Journal of Geochemical Exploration</i> , 2021 , 224, 106757	3.8	1
4	Mine waste from carbonatite deposits as potential rare earth resource: Insight into the Phalaborwa (Palabora) Complex. <i>Journal of Geochemical Exploration</i> , 2022 , 232, 106884	3.8	1
3	Initial phthalates fingerprint and hydrochemical signature as key factors controlling phthalates concentration trends in PET-bottled waters during long storage times. <i>Food Chemistry</i> , 2022 , 372, 131248	8.5	0

- 2 An integrated modeling approach for mineral and metal transport in acidic rivers at high mountainous porphyry Cu systems. *Journal of Hydrology*, **2021**, 602, 126718 6 0
- 1 Geochemical, mineralogical and geostatistical modelling of an IOCG tailings deposit (El Buitre, Chile): Implications for environmental safety and economic potential. *Journal of Geochemical Exploration*, **2022**, 106997 3.8 0