Manuel Antonio Caraballo Monge

List of Publications by Year in Descending Order

37 papers	1,033 citations	20 h-index	32 g-index
38 ext. papers	1,164 ext. citations	6.3 avg, IF	4.17 L-index

#	Paper	IF	Citations
37	Initial phthalates fingerprint and hydrochemical signature as key factors controlling phthalates concentration trends in PET-bottled waters during long storage times. *Food Chemistry*, **2022**, 372, 131248	8.5	0
36	Mine waste from carbonatite deposits as potential rare earth resource: Insight into the Phalaborwa (Palabora) Complex. *Journal of Geochemical Exploration*, **2022**, 232, 106884	3.8	1
35	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
34	Environmental and geochemical characterization of alkaline mine wastes from Phalaborwa (Palabora) Complex, South Africa. *Journal of Geochemical Exploration*, **2021**, 224, 106757	3.8	1
33	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). *Science of the Total Environment*, **2021**, 785, 147266	10.2	2
32	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
31	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). *Journal of Hydrology*, **2020**, 588, 125063	6	5
30	Exploring sulfate and metals removal from Andean acid mine drainage using CaCO3-rich residues from agri-food industries and witherite (BaCO3). *Journal of Cleaner Production*, **2020**, 274, 123450	10.3	4
29	Revalorization of Haveri Au-Cu mine tailings (SW Finland) for potential reprocessing. *Journal of Geochemical Exploration*, **2020**, 218, 106614	3.8	7
28	Aluminum mobility in mildly acidic mine drainage: Interactions between hydrobasaluminite, silica and trace metals from the nano to the meso-scale. *Chemical Geology*, **2019**, 519, 1-10	4.2	9
27	Detection and assignment of inorganic aqueous polymers relevant to environmental nanogeoscience by direct infusion electrospray ionization mass spectrometry. *Journal of Mass Spectrometry*, **2019**, 54, 495-506	2.2	1
26	Rotating-disk sorptive extraction coupled to gas chromatography mass spectrometry for the determination of phthalates in bottled water. *Analytical Methods*, **2019**, 11, 6111-6118	3.2	12
25	Uncertainty in the measurement of toxic metals mobility in mining/mineral wastes by standardized BCRSEP. *Journal of Hazardous Materials*, **2018**, 360, 587-593	12.8	23
24	A geochemical approach to the restoration plans for the Odiel River basin (SW Spain), a watershed deeply polluted by acid mine drainage. *Environmental Science and Pollution Research*, **2017**, 24, 4506-4516	5.1	19
23	Management strategies and valorization for waste sludge from active treatment of extremely metal-polluted acid mine drainage: A contribution for sustainable mining. *Journal of Cleaner Production*, **2017**, 141, 1057-1066	10.3	40
22	Long term fluctuations of groundwater mine pollution in a sulfide mining district with dry Mediterranean climate: Implications for water resources management and remediation. *Science of the Total Environment*, **2016**, 539, 427-435	10.2	42
21	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. *American Mineralogist*, **2015**, 100, 14-25	2.9	25

20	Observations and assessment of iron oxide and green rust nanoparticles in metal-polluted mine drainage within a steep redox gradient. *Environmental Chemistry*, **2014**, 11, 377	3.2	36
19	Acid mine drainage in the Iberian Pyrite Belt: 2. Lessons learned from recent passive remediation experiences. *Environmental Science and Pollution Research*, **2013**, 20, 7837-53	5.1	60
18	Metastability, nanocrystallinity and pseudo-solid solution effects on the understanding of schwertmannite solubility. *Chemical Geology*, **2013**, 360-361, 22-31	4.2	39
17	Biologically-induced precipitation of sphalerite-wurtzite nanoparticles by sulfate-reducing bacteria: implications for acid mine drainage treatment. *Science of the Total Environment*, **2012**, 423, 176-84	10.2	49
16	Natural pretreatment and passive remediation of highly polluted acid mine drainage. *Journal of Environmental Management*, **2012**, 104, 93-100	7.9	56
15	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. *Science of the Total Environment*, **2012**, 433, 323-30	10.2	58
14	Environmental assessment and management of metal-rich wastes generated in acid mine drainage passive remediation systems. *Journal of Hazardous Materials*, **2012**, 229-230, 107-14	12.8	35
13	Dissolved and particulate metals and arsenic species mobility along a stream affected by Acid Mine Drainage in the Iberian Pyrite Belt (SW Spain). *Applied Geochemistry*, **2012**, 27, 1944-1952	3.5	27
12	The enigmatic iron oxyhydroxysulfate nanomineral schwertmannite: Morphology, structure, and composition. *American Mineralogist*, **2012**, 97, 1469-1482	2.9	37
11	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). *Chemical Geology*, **2011**, 284, 97-104	4.2	17
10	Toxicity and potential risk assessment of a river polluted by acid mine drainage in the Iberian Pyrite Belt (SW Spain). *Science of the Total Environment*, **2011**, 409, 4763-71	10.2	65
9	Long term remediation of highly polluted acid mine drainage: a sustainable approach to restore the environmental quality of the Odiel river basin. *Environmental Pollution*, **2011**, 159, 3613-9	9.3	59
8	Mineralogy and geochemistry of Zn-rich mine-drainage precipitates from an MgO passive treatment system by synchrotron-based X-ray analysis. *Environmental Science & Technology*, **2011**, 45, 7826-33	10.3	15
7	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). *American Mineralogist*, **2011**, 96, 1270-1277	2.9	25
6	Metal retention, mineralogy, and design considerations of a mature permeable reactive barrier (PRB) for acidic mine water drainage in Northumberland, U.K.. *American Mineralogist*, **2010**, 95, 1642-1649	2.9	10
5	Implementation of an MgO-based metal removal step in the passive treatment system of Shilbottle, UK: column experiments. *Journal of Hazardous Materials*, **2010**, 181, 923-30	12.8	16
4	Sequential extraction and DXRD applicability to poorly crystalline Fe- and Al-phase characterization from an acid mine water passive remediation system. *American Mineralogist*, **2009**, 94, 1029-1038	2.9	42
3	Field multi-step limestone and MgO passive system to treat acid mine drainage with high metal concentrations. *Applied Geochemistry*, **2009**, 24, 2301-2311	3.5	64

2	Field application of calcite Dispersed Alkaline Substrate (calcite-DAS) for passive treatment of acid mine drainage with high Al and metal concentrations. *Applied Geochemistry*, **2008**, 23, 1660-1674	3.5	56
1	Potential environmental impact at São Domingos mining district (Iberian Pyrite Belt, SW Iberian Peninsula): evidence from a chemical and mineralogical characterization. *Environmental Geology*, **2008**, 55, 1797-1809		73