

# Francisco A Macas

## List of Publications by Citations

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59  
papers

1,313  
citations

22  
h-index

34  
g-index

59  
ext. papers

1,598  
ext. citations

7.7  
avg, IF

4.83  
L-index

#	Paper	IF	Citations
59	Recovery of Rare Earth Elements and Yttrium from Passive-Remediation Systems of Acid Mine Drainage. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 8255-62	10.3	145
58	Pollutant flows from a phosphogypsum disposal area to an estuarine environment: An insight from geochemical signatures. <i>Science of the Total Environment</i> , <b>2016</b> , 553, 42-51	10.2	76
57	Field multi-step limestone and MgO passive system to treat acid mine drainage with high metal concentrations. <i>Applied Geochemistry</i> , <b>2009</b> , 24, 2301-2311	3.5	64
56	Acid mine drainage in the Iberian Pyrite Belt: 2. Lessons learned from recent passive remediation experiences. <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 7837-53	5.1	60
55	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> , <b>2011</b> , 159, 3613-9	9.3	59
54	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> , <b>2012</b> , 433, 323-30	10.2	58
53	Natural pretreatment and passive remediation of highly polluted acid mine drainage. <i>Journal of Environmental Management</i> , <b>2012</b> , 104, 93-100	7.9	56
52	Valorization of wastes from the fertilizer industry: Current status and future trends. <i>Journal of Cleaner Production</i> , <b>2018</b> , 174, 678-690	10.3	49
51	An anomalous metal-rich phosphogypsum: Characterization and classification according to international regulations. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 331, 99-108	12.8	43
50	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> , <b>2016</b> , 539, 427-435	10.2	42
49	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> , <b>2017</b> , 141, 1057-1066	10.3	40
48	Metastability, nanocrystallinity and pseudo-solid solution effects on the understanding of schwertmannite solubility. <i>Chemical Geology</i> , <b>2013</b> , 360-361, 22-31	4.2	39
47	Mobility of rare earth elements, yttrium and scandium from a phosphogypsum stack: Environmental and economic implications. <i>Science of the Total Environment</i> , <b>2018</b> , 618, 847-857	10.2	36
46	Environmental Assessment and Management of Phosphogypsum According to European and United States of America Regulations. <i>Procedia Earth and Planetary Science</i> , <b>2017</b> , 17, 666-669		35
45	Environmental assessment and management of metal-rich wastes generated in acid mine drainage passive remediation systems. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 229-230, 107-14	12.8	35
44	Exploration of fertilizer industry wastes as potential source of critical raw materials. <i>Journal of Cleaner Production</i> , <b>2017</b> , 143, 497-505	10.3	28
43	Passive elimination of sulfate and metals from acid mine drainage using combined limestone and barium carbonate systems. <i>Journal of Cleaner Production</i> , <b>2018</b> , 182, 114-123	10.3	26

42	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> , <b>2011</b> , 96, 1270-1277	2.9	25
41	Water acidification trends in a reservoir of the Iberian Pyrite Belt (SW Spain). <i>Science of the Total Environment</i> , <b>2016</b> , 541, 400-411	10.2	23
40	Uncertainty in the measurement of toxic metals mobility in mining/mineral wastes by standardized BCRSEP. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 360, 587-593	12.8	23
39	New herbicide models from benzoxazinones: aromatic ring functionalization effects. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 9843-51	5.7	23
38	Life cycle assessment of a passive remediation system for acid mine drainage: Towards more sustainable mining activity. <i>Journal of Cleaner Production</i> , <b>2019</b> , 211, 1100-1111	10.3	23
37	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). <i>Catena</i> , <b>2016</b> , 137, 12-23	5.8	21
36	Causes and impacts of a mine water spill from an acidic pit lake (Iberian Pyrite Belt). <i>Environmental Pollution</i> , <b>2019</b> , 250, 127-136	9.3	21
35	A bacterial consortium isolated from an Icelandic fumarole displays exceptionally high levels of sulfate reduction and metals resistance. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 187, 362-70	12.8	21
34	Seasonal variability of extremely metal rich acid mine drainages from the Tharsis mines (SW Spain). <i>Environmental Pollution</i> , <b>2020</b> , 259, 113829	9.3	21
33	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> , <b>2017</b> , 24, 4506-4516	5.1	19
32	Sulfate reduction processes in salt marshes affected by phosphogypsum: Geochemical influences on contaminant mobility. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 350, 154-161	12.8	18
31	Mineralogy and geochemistry of Zn-rich mine-drainage precipitates from an MgO passive treatment system by synchrotron-based X-ray analysis. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 7826-33	10.3	15
30	Assessment of metals mobility during the alkaline treatment of highly acid phosphogypsum leachates. <i>Science of the Total Environment</i> , <b>2019</b> , 660, 395-405	10.2	13
29	Metal and acidity fluxes controlled by precipitation/dissolution cycles of sulfate salts in an anthropogenic mine aquifer. <i>Journal of Contaminant Hydrology</i> , <b>2016</b> , 188, 29-43	3.9	12
28	The Evolution of Pollutant Concentrations in a River Severely Affected by Acid Mine Drainage: R� Tinto (SW Spain). <i>Minerals (Basel, Switzerland)</i> , <b>2020</b> , 10, 598	2.4	11
27	Mineralogically-induced metal partitioning during the evaporative precipitation of efflorescent sulfate salts from acid mine drainage. <i>Chemical Geology</i> , <b>2019</b> , 530, 119339	4.2	11
26	Hydrological characterization and prediction of flood levels of acidic pit lakes in the Tharsis mines, Iberian Pyrite Belt. <i>Journal of Hydrology</i> , <b>2018</b> , 566, 807-817	6	11
25	Geochemical processes in a highly acidic pit lake of the Iberian Pyrite Belt (SW Spain). <i>Chemical Geology</i> , <b>2015</b> , 395, 144-153	4.2	10

24	Distribution and availability of rare earth elements and trace elements in the estuarine waters of the RB of Huelva (SW Spain). <i>Environmental Pollution</i> , <b>2020</b> , 267, 115506	9.3	10
23	Stable isotope insights into the weathering processes of a phosphogypsum disposal area. <i>Water Research</i> , <b>2018</b> , 140, 344-353	12.5	9
22	Release of technology critical metals during sulfide oxidation processes: the case of the Poderosa sulfide mine (south-west Spain). <i>Environmental Chemistry</i> , <b>2020</b> , 17, 93	3.2	9
21	Geochemical behavior of rare earth elements in acid drainages: Modeling achievements and limitations. <i>Journal of Geochemical Exploration</i> , <b>2020</b> , 216, 106577	3.8	8
20	Hydrogeochemical behavior of an anthropogenic mine aquifer: Implications for potential remediation measures. <i>Science of the Total Environment</i> , <b>2018</b> , 636, 85-93	10.2	8
19	Mine waters as a secondary source of rare earth elements worldwide: The case of the Iberian Pyrite Belt. <i>Journal of Geochemical Exploration</i> , <b>2021</b> , 224, 106742	3.8	7
18	Assessing the quality of potentially reclaimed mine soils: Environmental implications for the construction of a nearby water reservoir. <i>Chemosphere</i> , <b>2019</b> , 216, 19-30	8.4	7
17	Design and optimization of sustainable passive treatment systems for phosphogypsum leachates in an orphan disposal site. <i>Journal of Environmental Management</i> , <b>2020</b> , 275, 111251	7.9	6
16	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> , <b>2017</b> , 550, 590-602	6	5
15	Ecological improvement assessment of a passive remediation technology for acid mine drainage: Water quality biomonitoring using bivalves. <i>Chemosphere</i> , <b>2019</b> , 219, 695-703	8.4	5
14	Synthesis and antimicrobial activity of some benzoxazinoids derivatives of 2-nitrophenol and 3-hydroxy-2-nitropyridine. <i>Synthetic Communications</i> , <b>2019</b> , 49, 286-296	1.7	5
13	Mineral reactivity in sulphide mine wastes: influence of mineralogy and grain size on metal release. <i>European Journal of Mineralogy</i> , <b>2019</b> , 31, 263-273	2.2	4
12	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> , <b>2021</b> , 764, 143796	10.2	4
11	Eco-sustainable passive treatment for mine waters: Full-scale and long-term demonstration. <i>Journal of Environmental Management</i> , <b>2021</b> , 280, 111699	7.9	4
10	Rare earth elements in a historical mining district (south-west Spain): Hydrogeochemical behaviour and seasonal variability. <i>Chemosphere</i> , <b>2020</b> , 253, 126742	8.4	3
9	Temporal evolution of acid mine drainage (AMD) leachates from the abandoned tharsis mine (Iberian Pyrite Belt, Spain).. <i>Environmental Pollution</i> , <b>2021</b> , 295, 118697	9.3	2
8	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> , <b>2021</b> , 20, 100240	8.1	2
7	Combined procedure of metal removal and recovery of technology elements from fertilizer industry effluents. <i>Journal of Geochemical Exploration</i> , <b>2021</b> , 221, 106698	3.8	2

6	Toxicity and Anti-promastigote Activity of Benzoxazinoid Analogs Against and. <i>Advanced Pharmaceutical Bulletin</i> , <b>2020</b> , 10, 119-124	4.5	1
5	Environmental management and potential valorization of wastes generated in passive treatments of fertilizer industry effluents.. <i>Chemosphere</i> , <b>2022</b> , 295, 133876	8.4	0
4	Recovery of Critical Raw Materials from Acid Mine Drainage (AMD) <b>2020</b> , 219-233		0
3	Stream-pit lake interactions in an abandoned mining area affected by acid drainage (Iberian Pyrite Belt).. <i>Science of the Total Environment</i> , <b>2022</b> , 155224	10.2	0
2	Thallium distribution in an estuary affected by acid mine drainage (AMD): The R� de Huelva estuary (SW Spain).. <i>Environmental Pollution</i> , <b>2022</b> , 119448	9.3	0
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	