

Francisco A MacÃ- as

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,918
citations

236612

25
h-index

264894

42
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all docs

59
docs citations

59
times ranked

1638
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 Tj ETQq0 0 0.0784314 rgBT /Overlock 10 Tf	3.9	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	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
5	Thallium distribution in an estuary affected by acid mine drainage (AMD): The RĀa de Huelva estuary (SW Spain). <i>Environmental Pollution</i> , 2022, 306, 119448.	3.7	2
6	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
7	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
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> , 2021, 20, 100240.	2.1	7
9	Geochemical behaviour and transport of technology critical metals (TCMs) by the Tinto River (SW Tj ETQq1 1 0.784314 rgBT /Overlo	3.9	11
10	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
11	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
12	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
13	Distribution and availability of rare earth elements and trace elements in the estuarine waters of the RĀa de Huelva (SW Spain). <i>Environmental Pollution</i> , 2020, 267, 115506.	3.7	21
14	The Evolution of Pollutant Concentrations in a River Severely Affected by Acid Mine Drainage: RĀo Tinto (SW Spain). <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 598.	0.8	18
15	Geochemical behavior of rare earth elements in acid drainages: Modeling achievements and limitations. <i>Journal of Geochemical Exploration</i> , 2020, 216, 106577.	1.5	16
16	Toxicity and Anti-promastigote Activity of Benzoxazinoid Analogs Against <i>Leishmania (Viannia) braziliensis</i> and <i>Leishmania (Leishmania) infantum</i> . <i>Advanced Pharmaceutical Bulletin</i> , 2020, 10, 119-124.	0.6	1
17	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
18	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

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19	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
20	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
21	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
22	Ecological improvement assessment of a passive remediation technology for acid mine drainage: Water quality biomonitoring using bivalves. <i>Chemosphere</i> , 2019, 219, 695-703.	4.2	12
23	Synthesis and antimicrobial activity of some benzoxazinoids derivatives of 2-nitrophenol and 3-hydroxy-2-nitropyridine. <i>Synthetic Communications</i> , 2019, 49, 286-296.	1.1	8
24	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
25	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
26	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
27	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
28	Passive elimination of sulfate and metals from acid mine drainage using combined limestone and barium carbonate systems. <i>Journal of Cleaner Production</i> , 2018, 182, 114-123.	4.6	49
29	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
30	Stable isotope insights into the weathering processes of a phosphogypsum disposal area. <i>Water Research</i> , 2018, 140, 344-353.	5.3	30
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	Recovery of Rare Earth Elements and Yttrium from Passive-Remediation Systems of Acid Mine Drainage. <i>Environmental Science & Technology</i> , 2016, 50, 8255-8262.	4.6	204
42	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
43	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
44	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
45	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.	3.9	53
46	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). <i>Catena</i> , 2016, 137, 12-23.	2.2	26
47	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
48	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, 7837-7853.	2.7	71
49	Metastability, nanocrystallinity and pseudo-solid solution effects on the understanding of schwertmannite solubility. <i>Chemical Geology</i> , 2013, 360-361, 22-31.	1.4	53
50	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, 323-330.	3.9	66
51	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, 107-114.	6.5	47
52	Natural pretreatment and passive remediation of highly polluted acid mine drainage. <i>Journal of Environmental Management</i> , 2012, 104, 93-100.	3.8	70
53	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, 7826-7833.	4.6	18
54	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, 3613-3619.	3.7	69

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55	A bacterial consortium isolated from an Icelandic fumarole displays exceptionally high levels of sulfate reduction and metals resistance. <i>Journal of Hazardous Materials</i> , 2011, 187, 362-370.	6.5	24
56	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.	0.9	28
57	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.	1.4	70
58	New Herbicide Models from Benzoxazinones: Aromatic Ring Functionalization Effects. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 9843-9851.	2.4	26