Jose Miguel Nieto

List of Publications by Citations

154 papers	5,945 citations	43 h-index	70 g-index
159 ext. papers	6,605 ext. citations	5.5 avg, IF	5.77 L-index

#	Paper	IF	Citations
154	The behavior of trace elements during schwertmannite precipitation and subsequent transformation into goethite and jarosite. *Geochimica Et Cosmochimica Acta*, **2006**, 70, 4130-4139	5.5	281
153	Mineral sequestration of CO(2) by aqueous carbonation of coal combustion fly-ash. *Journal of Hazardous Materials*, **2009**, 161, 1347-54	12.8	235
152	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. *Environment International*, **2007**, 33, 445-55	12.9	223
151	Seasonal water quality variations in a river affected by acid mine drainage: the Odiel River (South West Spain). *Science of the Total Environment*, **2004**, 333, 267-81	10.2	191
150	Changes in mobility of hazardous elements during coal combustion in Santa Catarina power plant (Brazil). *Fuel*, **2012**, 94, 495-503	7.1	168
149	Recovery of Rare Earth Elements and Yttrium from Passive-Remediation Systems of Acid Mine Drainage. *Environmental Science & Technology*, **2016**, 50, 8255-62	10.3	145
148	Hydrogeochemical characteristics of the Tinto and Odiel Rivers (SW Spain). Factors controlling metal contents. *Science of the Total Environment*, **2007**, 373, 363-82	10.2	138
147	Evaluation of the dissolved contaminant load transported by the Tinto and Odiel rivers (South West Spain). *Applied Geochemistry*, **2006**, 21, 1733-1749	3.5	136
146	Hydrochemical characteristics and seasonal influence on the pollution by acid mine drainage in the Odiel river Basin (SW Spain). *Applied Geochemistry*, **2009**, 24, 697-714	3.5	131
145	An archaeological approach to regional environmental pollution in the south-western Iberian Peninsula related to Third millennium BC mining and metallurgy. *Journal of Archaeological Science*, **2005**, 32, 1566-1576	2.9	117
144	Use of sequential extraction procedure for assessing the environmental impact at regional scale of the S□ Domingos Mine (Iberian Pyrite Belt). *Applied Geochemistry*, **2008**, 23, 3452-3463	3.5	102
143	Changes in mobility of toxic elements during the production of phosphoric acid in the fertilizer industry of Huelva (SW Spain) and environmental impact of phosphogypsum wastes. *Journal of Hazardous Materials*, **2007**, 148, 745-50	12.8	97
142	Dynamics of contaminants in phosphogypsum of the fertilizer industry of Huelva (SW Spain): From phosphate rock ore to the environment. *Applied Geochemistry*, **2010**, 25, 705-715	3.5	96
141	Analysis of the spatial variation of heavy metals in the Guadiana Estuary sediments (SW Iberian Peninsula) based on GIS-mapping techniques. *Estuarine, Coastal and Shelf Science*, **2010**, 88, 71-83	2.9	94
140	Speciation and ecological risk of toxic elements in estuarine sediments affected by multiple anthropogenic contributions (Guadiana saltmarshes, SW Iberian Peninsula): I. Surficial sediments. *Science of the Total Environment*, **2011**, 409, 3666-79	10.2	88
139	Hydrochemical variations and contaminant load in the R□ Tinto (Spain) during flood events. *Journal of Hydrology*, **2008**, 350, 25-40	6	88
138	Heavy metals fractionation and multivariate statistical techniques to evaluate the environmental risk in soils of Huelva Township (SW Iberian Peninsula). *Journal of Geochemical Exploration*, **2012**, 119-120, 32-43	3.8	82

137	Carbonation of alkaline paper mill waste to reduce CO2 greenhouse gas emissions into the atmosphere. *Applied Geochemistry*, **2008**, 23, 2292-2300	3.5	82
136	Enrichment of rare earth elements as environmental tracers of contamination by acid mine drainage in salt marshes: a new perspective. *Marine Pollution Bulletin*, **2012**, 64, 1799-808	6.7	80
135	Tectonostratigraphic subdivision and petrological characterisation of the deepest complexes of the Betic zone: a review. *Geodinamica Acta*, **2002**, 15, 23-43	2	78
134	Petrology and metamorphic evolution of ultramafic rocks and dolerite dykes of the Betic Ophiolitic Association (Mulhacén Complex, SE Spain): evidence of eo-Alpine subduction following an ocean-floor metasomatic process. *Lithos*, **1999**, 49, 23-56	2.9	76
133	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
132	Sea-level rise and anthropogenic activities recorded in the late Pleistocene/Holocene sedimentary infill of the Guadiana Estuary (SW Iberia). *Quaternary Science Reviews*, **2012**, 33, 121-141	3.9	72
131	Rare earth element geochemistry of sulphide weathering in the São Domingos mine area (Iberian Pyrite Belt): A proxy for fluid–rock interaction and ancient mining pollution. *Chemical Geology*, **2010** , 276, 29-40	4.2	70
130	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
129	Evaluation of heavy metal bio-availability from Almagrera pyrite-rich tailings dam (Iberian Pyrite Belt, SW Spain) based on a sequential extraction procedure. *Journal of Geochemical Exploration*, **2009**, 102, 87-94	3.8	64
128	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
127	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
126	Acid mine drainage in the Iberian Pyrite Belt: 1. Hydrochemical characteristics and pollutant load of the Tinto and Odiel rivers. *Environmental Science and Pollution Research*, **2013**, 20, 7509-19	5.1	59
125	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
124	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
123	Natural pretreatment and passive remediation of highly polluted acid mine drainage. *Journal of Environmental Management*, **2012**, 104, 93-100	7.9	56
122	Wash-out processes of evaporitic sulfate salts in the Tinto river: Hydrogeochemical evolution and environmental impact. *Applied Geochemistry*, **2010**, 25, 288-301	3.5	56
121	Utilization of fly ash to improve the quality of the acid mine drainage generated by oxidation of a sulphide-rich mining waste: column experiments. *Chemosphere*, **2007**, 67, 1637-46	8.4	56
120	Inorganic arsenic speciation at river basin scales: the Tinto and Odiel rivers in the Iberian Pyrite Belt, SW Spain. *Environmental Pollution*, **2009**, 157, 1202-9	9.3	55

119	The smelting quarter of Valencina de la Concepci□n (Seville, Spain): the specialised copper industry in a political centre of the Guadalquivir Valley during the Third millennium BC (2750□2500 BC). *Journal of Archaeological Science*, **2008**, 35, 717-732	2.9	54
118	Environmental geochemical mapping of Huelva municipality soils (SW Spain) as a tool to determine background and baseline values. *Journal of Geochemical Exploration*, **2011**, 109, 59-69	3.8	53
117	Petrology, geochemistry and U□Pb geochronology of the Betic Ophiolites: Inferences for Pangaea break-up and birth of the westernmost Tethys Ocean. *Lithos*, **2011**, 124, 255-272	2.9	53
116	Natural attenuation processes in two water reservoirs receiving acid mine drainage. *Science of the Total Environment*, **2009**, 407, 2051-62	10.2	52
115	Assessment of metal contamination, bioavailability, toxicity and bioaccumulation in extreme metallic environments (Iberian Pyrite Belt) using Corbicula fluminea. *Science of the Total Environment*, **2016**, 544, 1031-44	10.2	50
114	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
113	Application of the SWAT model to an AMD-affected river (Meca River, SW Spain). Estimation of transported pollutant load. *Journal of Hydrology*, **2009**, 377, 445-454	6	44
112	THE EXTRACTIVE METALLURGY OF COPPER FROM CABEZO JURE, HUELVA, SPAIN: CHEMICAL AND MINERALOGICAL STUDY OF SLAGS DATED TO THE THIRD MILLENIUM B.C.. *Canadian Mineralogist*, **2003**, 41, 627-638	0.7	44
111	An anomalous metal-rich phosphogypsum: Characterization and classification according to international regulations. *Journal of Hazardous Materials*, **2017**, 331, 99-108	12.8	43
110	The iron-coating role on the oxidation kinetics of a pyritic sludge doped with fly ash. *Geochimica Et Cosmochimica Acta*, **2007**, 71, 1921-1934	5.5	43
109	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
108	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
107	Immobilization of toxic elements in mine residues derived from mining activities in the Iberian Pyrite Belt (SW Spain): Laboratory experiments. *Applied Geochemistry*, **2007**, 22, 1919-1935	3.5	41
106	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
105	Metastability, nanocrystallinity and pseudo-solid solution effects on the understanding of schwertmannite solubility. *Chemical Geology*, **2013**, 360-361, 22-31	4.2	39
104	Neutralization of acid mine drainage using the final product from CO2 emissions capture with alkaline paper mill waste. *Journal of Hazardous Materials*, **2010**, 177, 762-72	12.8	39
103	Environmental Impact of Mining Activities in the Southern Sector of the Guadiana Basin (SW of the Iberian Peninsula). *Water, Air, and Soil Pollution*, **2009**, 199, 323-341	2.6	37
102	Circulation of silicified oolitic limestone blades in South-Iberia (Spain and Portugal) during the third millennium B.C.: an expression of a core/periphery framework. *Journal of Anthropological Archaeology*, **2005**, 24, 62-81	1.9	37

101	Mobility of rare earth elements, yttrium and scandium from a phosphogypsum stack: Environmental and economic implications. *Science of the Total Environment*, **2018**, 618, 847-857	10.2	36
100	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
99	Erica andevalensis and Erica australis growing in the same extreme environments: Phytostabilization potential of mining areas. *Geoderma*, **2014**, 230-231, 194-203	6.7	33
98	Environmental tracers for elucidating the weathering process in a phosphogypsum disposal site: Implications for restoration. *Journal of Hydrology*, **2015**, 529, 1313-1323	6	32
97	A case study of the internal structures of gossans and weathering processes in the Iberian Pyrite Belt using magnetic fabrics and paleomagnetic dating. *Mineralium Deposita*, **2011**, 46, 981-999	4.8	32
96	Gold in the Southwest of the Iberian Peninsula during the 3rd Millennium BC. *Journal of Archaeological Science*, **2014**, 41, 691-704	2.9	31
95	CONTRASTING P T PATHS IN ECLOGITES OF THE BETIC OPHIOLITIC ASSOCIATION, MULHACEN COMPLEX, SOUTHEASTERN SPAIN. *Canadian Mineralogist*, **2000**, 38, 1137-1161	0.7	31
94	Diel cycles of arsenic speciation due to photooxidation in acid mine drainage from the Iberian Pyrite Belt (Sw Spain). *Chemosphere*, **2007**, 66, 677-83	8.4	30
93	Pollutant transport processes in the Odiel River (SW Spain) during rain events. *Water Resources Research*, **2012**, 48,	5.4	29
92	Evaluation of heavy metals and arsenic speciation discharged by the industrial activity on the Tinto-Odiel estuary, SW Spain. *Marine Pollution Bulletin*, **2011**, 62, 405-11	6.7	29
91	Attenuation of pyrite oxidation with a fly ash pre-barrier: Reactive transport modelling of column experiments. *Applied Geochemistry*, **2009**, 24, 1712-1723	3.5	29
90	Exploration of fertilizer industry wastes as potential source of critical raw materials. *Journal of Cleaner Production*, **2017**, 143, 497-505	10.3	28
89	New preservation method for inorganic arsenic speciation in acid mine drainage samples. *Talanta*, **2006**, 69, 1182-9	6.2	28
88	Historical roasting of thallium- and arsenic-bearing pyrite: Current Tl pollution in the Riotinto mine area. *Science of the Total Environment*, **2019**, 648, 1263-1274	10.2	28
87	A novel approach for acid mine drainage pollution biomonitoring using rare earth elements bioaccumulated in the freshwater clam Corbicula fluminea. *Journal of Hazardous Materials*, **2017**, 338, 466-471	12.8	27
86	Arsenate and Selenate Scavenging by Basaluminite: Insights into the Reactivity of Aluminum Phases in Acid Mine Drainage. *Environmental Science & Technology*, **2017**, 51, 28-37	10.3	27
85	Background Conditions and Mining Pollution throughout History in the Rio Tinto (SW Spain). *Environments - MDPI*, **2015**, 2, 295-316	3.2	27
84	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

83	Water Quality in the Future Alcolea Reservoir (Odiel River, SW Spain): A Clear Example of the Inappropriate Management of Water Resources in Spain. *Water Resources Management*, **2011**, 25, 201-215	3.7	26
82	Iron isotopes in acid mine waters and iron-rich solids from the Tinto Odiel Basin (Iberian Pyrite Belt, Southwest Spain). *Chemical Geology*, **2008**, 253, 162-171	4.2	26
81	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
80	RECRYSTALLIZATION TEXTURES IN ZIRCON GENERATED BY OCEAN-FLOOR AND ECLOGITE-FACIES METAMORPHISM: A CATHODOLUMINESCENCE AND U Pb SHRIMP STUDY, WITH CONSTRAINTS FROM REE ELEMENTS. *Canadian Mineralogist*, **2005**, 43, 183-202	0.7	25
79	Supergene enrichment of precious metals by natural amalgamation in the Las Cruces weathering profile (Iberian Pyrite Belt, SW Spain). *Ore Geology Reviews*, **2014**, 58, 14-26	3.2	24
78	Influence of releases from a fresh water reservoir on the hydrochemistry of the Tinto River (SW Spain). *Science of the Total Environment*, **2012**, 416, 418-28	10.2	24
77	Evaluation of organic substrates to enhance the sulfate-reducing activity in phosphogypsum. *Science of the Total Environment*, **2012**, 439, 106-13	10.2	24
76	Mercury in the Tinto-Odiel Estuarine System (Gulf of Cadiz, Spain): Sources and Dispersion. *Aquatic Geochemistry*, **2001**, 7, 1-12	1.7	24
75	Water acidification trends in a reservoir of the Iberian Pyrite Belt (SW Spain). *Science of the Total Environment*, **2016**, 541, 400-411	10.2	23
74	The Betic Ophiolites and the Mesozoic Evolution of the Western Tethys. *Geosciences (Switzerland)*, **2017**, 7, 31	2.7	23
73	Source and impact of lead contamination on δ-aminolevulinic acid dehydratase activity in several marine bivalve species along the Gulf of Cadiz. *Aquatic Toxicology*, **2011**, 101, 146-54	5.1	23
72	Combination of sequential chemical extraction and modelling of dam-break wave propagation to aid assessment of risk related to the possible collapse of a roasted sulphide tailings dam. *Science of the Total Environment*, **2009**, 407, 5761-71	10.2	23
71	Formation of a hardpan in the co-disposal of fly ash and sulfide mine tailings and its influence on the generation of acid mine drainage. *Chemical Geology*, **2013**, 355, 45-55	4.2	22
70	Synchrotron-based X-ray study of iron oxide transformations in terraces from the Tinto-Odiel river system: Influence on arsenic mobility. *Chemical Geology*, **2011**, 280, 336-343	4.2	22
69	Assessment of phosphogypsum impact on the salt-marshes of the Tinto river (SW Spain): role of natural attenuation processes. *Marine Pollution Bulletin*, **2011**, 62, 2787-96	6.7	22
68	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). *Catena*, **2016**, 137, 12-23	5.8	21
67	Causes and impacts of a mine water spill from an acidic pit lake (Iberian Pyrite Belt). *Environmental Pollution*, **2019**, 250, 127-136	9.3	21
66	Arsenic speciation in soils and Erica andevalensis Cabezudo & Rivera and Erica australis L. from São Domingos Mine area, Portugal. *Journal of Geochemical Exploration*, **2012**, 119-120, 51-59	3.8	21

65	Silicate and oxide exsolution in pseudo-spinifex olivine from metaultramafic rocks of the Betic Ophiolitic Association: A TEM study. *American Mineralogist*, **1999**, 84, 1915-1924	2.9	21
64	Beudantite: a natural sink for As and Pb in sulphide oxidation processes. *Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science*, **2003**, 112, 293-296		20
63	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
62	Acid neutralization by dissolution of alkaline paper mill wastes and implications for treatment of sulfide-mine drainage. *American Mineralogist*, **2011**, 96, 781-791	2.9	19
61	Prediction of the environmental impact of modern slags: A petrological and chemical comparative study with Roman age slags. *American Mineralogist*, **2009**, 94, 1417-1427	2.9	19
60	Sulfate reduction processes in salt marshes affected by phosphogypsum: Geochemical influences on contaminant mobility. *Journal of Hazardous Materials*, **2018**, 350, 154-161	12.8	18
59	Hydrological modeling of a watershed affected by acid mine drainage (Odiel River, SW Spain). Assessment of the pollutant contributing areas. *Journal of Hydrology*, **2016**, 540, 196-206	6	18
58	Preservation procedures for arsenic speciation in a stream affected by acid mine drainage in southwestern Spain. *Analytical and Bioanalytical Chemistry*, **2006**, 384, 1594-9	4.4	18
57	The role of mineralogy on element mobility in two sulfide mine tailings from the Iberian Pyrite Belt (SW Spain). *Chemical Geology*, **2013**, 345, 119-129	4.2	17
56	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
55	Mineralogy of the hardpan formation processes in the interface between sulfide-rich sludge and fly ash: Applications for acid mine drainage mitigation. *American Mineralogist*, **2007**, 92, 1966-1977	2.9	17
54	Tectonostratigraphic subdivision and petrological characterisation of the deepest complexes of the Betic zone: a review. *Geodinamica Acta*, **2002**, 15, 23-43	2	16
53	Gold Behavior in Supergene Profiles Under Changing Redox Conditions: The Example of the Las Cruces Deposit, Iberian Pyrite Belt. *Economic Geology*, **2015**, 110, 2109-2126	4.3	15
52	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
51	Rare earth elements mobility processes in an AMD-affected estuary: Huelva Estuary (SW Spain). *Marine Pollution Bulletin*, **2017**, 121, 282-291	6.7	13
50	The Las Cruces deposit, Iberian Pyrite Belt, Spain. *Ore Geology Reviews*, **2015**, 66, 25-46	3.2	13
49	Effects of seawater mixing on the mobility of trace elements in acid phosphogypsum leachates. *Marine Pollution Bulletin*, **2018**, 127, 695-703	6.7	13
48	Raman identification of Fe precipitates and evaluation of As fate during phase transformation in Tinto and Odiel River Basins. *Chemical Geology*, **2015**, 398, 22-31	4.2	13

47	Occurrence and mobility of As in the Yl[Evi Cu[VAs mine tailings. *Journal of Geochemical Exploration*, **2012**, 114, 36-45	3.8	13
46	The nanocrystalline structure of basaluminite, an aluminum hydroxide sulfate from acid mine drainage. *American Mineralogist*, **2017**, 102, 2381-2389	2.9	12
45	Refining the estimation of metal loads dissolved in acid mine drainage by continuous monitoring of specific conductivity and water level. *Applied Geochemistry*, **2012**, 27, 1932-1943	3.5	12
44	Combined microstructural and mineralogical phase characterization of gallstones in a patient-based study in SW Spain - Implications for environmental contamination in their formation. *Science of the Total Environment*, **2016**, 573, 433-443	10.2	11
43	The Betic Ophiolitic Association: A Very Significant Geological Heritage That Needs to be Preserved. *Geoheritage*, **2009**, 1, 11-31	2.6	11
42	The contaminant load transported by the river Odiel to the Gulf of C[diz (SW Spain). *Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science*, **2004**, 113, 117-122		11
41	The Evolution of Pollutant Concentrations in a River Severely Affected by Acid Mine Drainage: R[Tinto (SW Spain). *Minerals (Basel, Switzerland)*, **2020**, 10, 598	2.4	11
40	Mineralogically-induced metal partitioning during the evaporative precipitation of efflorescent sulfate salts from acid mine drainage. *Chemical Geology*, **2019**, 530, 119339	4.2	11
39	Geochemical processes in a highly acidic pit lake of the Iberian Pyrite Belt (SW Spain). *Chemical Geology*, **2015**, 395, 144-153	4.2	10
38	Metal fractionation in marine sediments acidified by enrichment of CO: A risk assessment. *Marine Pollution Bulletin*, **2018**, 131, 611-619	6.7	10
37	CHEMICAL AND STRUCTURAL EVOLUTION OF "METAMORPHIC VERMICULITE" IN METACLASTIC ROCKS OF THE BETIC CORDILLERA, MALAGA, SPAIN: A SYNTHESIS. *Canadian Mineralogist*, **2006**, 44, 249-265	0.7	10
36	Stable isotope insights into the weathering processes of a phosphogypsum disposal area. *Water Research*, **2018**, 140, 344-353	12.5	9
35	Trace elements and lead isotopic composition of copper deposits from the eastern part of the Internal Zone of the Betic Cordillera (SE Iberia): application to provenance of archaeological materials. *Journal of Iberian Geology*, **2019**, 45, 585-608	1.1	9
34	Geochemical mapping, environmental assessment and Pb isotopic signatures of geogenic and anthropogenic sources in three localities in SW Spain with different land use and geology. *Journal of Geochemical Exploration*, **2017**, 181, 172-190	3.8	9
33	Petrology, geodynamic evolution and georesources of the Natural Space of Sierra Nevada. *Estudios Geologicos*, **2007**, 63,	0.3	9
32	Release of technology critical metals during sulfide oxidation processes: the case of the Poderosa sulfide mine (south-west Spain). *Environmental Chemistry*, **2020**, 17, 93	3.2	9
31	Trace element-mineral associations in modern and ancient iron terraces in acid drainage environments. *Catena*, **2016**, 147, 386-393	5.8	9
30	Bioavailability and toxicity of metals from a contaminated sediment by acid mine drainage: linking exposure-response relationships of the freshwater bivalve Corbicula fluminea to contaminated sediment. *Environmental Science and Pollution Research*, **2016**, 23, 22957-22967	5.1	8

29	Metal(loid) Attenuation Processes in an Extremely Acidic River: The Rio Tinto (SW Spain). *Water, Air, and Soil Pollution*, **2014**, 225, 1	2.6	8
28	Influence of As(V) on precipitation and transformation of schwertmannite in acid mine drainage-impacted waters. *European Journal of Mineralogy*, **2019**, 31, 237-245	2.2	7
27	Unraveling the impact of chronic exposure to metal pollution through human gallstones. *Science of the Total Environment*, **2018**, 624, 1031-1040	10.2	7
26	Mineralogical evolution of the Las Cruces gossan cap (Iberian Pyrite Belt): From subaerial to underground conditions. *Ore Geology Reviews*, **2017**, 80, 377-405	3.2	7
25	Mine waters as a secondary source of rare earth elements worldwide: The case of the Iberian Pyrite Belt. *Journal of Geochemical Exploration*, **2021**, 224, 106742	3.8	7
24	Assessment of the dissolved pollutant flux of the Odiel River (SW Spain) during a wet period. *Science of the Total Environment*, **2013**, 463-464, 572-80	10.2	6
23	Basaluminite Structure and its Environmental Implications. *Procedia Earth and Planetary Science*, **2017**, 17, 237-240		5
22	Holocene ochreous lacustrine sediments within the Famatina Belt, NW Argentina: A natural case for fossil damming of an acid drainage system. *Journal of South American Earth Sciences*, **2014**, 52, 149-165	2	5
21	Metal-fluxes characterization at a catchment scale: Study of mixing processes and end-member analysis in the Meca River watershed (SW Spain). *Journal of Hydrology*, **2017**, 550, 590-602	6	5
20	Diverse mineral assemblages of acidic alteration in the Rio Tinto area (southwest Spain): Implications for Mars. *American Mineralogist*, **2018**, 103, 1877-1890	2.9	5
19	Role of Arsenic During the Aging of Acid Mine Drainage Precipitates. *Procedia Earth and Planetary Science*, **2017**, 17, 233-236		4
18	Abundance and composition of kaolinite on Mars: Information from NIR spectra of rocks from acid-alteration environments, Riotinto, SE Spain. *Icarus*, **2019**, 330, 30-41	3.8	4
17	Mineral reactivity in sulphide mine wastes: influence of mineralogy and grain size on metal release. *European Journal of Mineralogy*, **2019**, 31, 263-273	2.2	4
16	Geochemical behaviour and transport of technology critical metals (TCMs) by the Tinto River (SW Spain) to the Atlantic Ocean. *Science of the Total Environment*, **2021**, 764, 143796	10.2	4
15	Eco-sustainable passive treatment for mine waters: Full-scale and long-term demonstration. *Journal of Environmental Management*, **2021**, 280, 111699	7.9	4
14	DIET AND ENVIRONMENT IN SOUTH-EASTERN IBERIA DURING THE BRONZE AGE, BASED ON ISOTOPE ANALYSIS OF HUMAN REMAINS. *Oxford Journal of Archaeology*, **2019**, 38, 189-213	0.3	3
13	Comment on Identification of the subsurface sulfide bodies responsible for acidity in Rio Tinto source water, Spain by Gómez-Ortiz et al. (Earth Planet. Sci. Lett. 391 (2014) 36–41). *Earth and Planetary Science Letters*, **2014**, 403, 456-458	5.3	3
12	Determination of denudation rates by the measurement of meteoric Be in Guadiana river sediment samples (Spain) by low-energy AMS. *Journal of Environmental Radioactivity*, **2018**, 189, 227-235	2.4	3

11	Closing the upcoming EU gypsum gap with phosphogypsum. *Resources, Conservation and Recycling*, **2022**, 182, 106328	11.9	3
10	Preliminary Results of Ecotoxicological Assessment of an Acid Mine Drainage (AMD) Passive Treatment System Testing Water Quality of Depurated Lixiviates. *Procedia Earth and Planetary Science*, **2017**, 17, 269-272		2
9	Metal(loid) release from sulfide-rich wastes to the environment: The case of the Iberian Pyrite Belt (SW Spain). *Current Opinion in Environmental Science and Health*, **2021**, 20, 100240	8.1	2
8	Alfarería y metalurgia en el Suroeste de la Península Ibérica durante el III Milenio A.N.E.: elecciones tecnológicas en la manufactura de instrumentos cerámicos vinculados al proceso metalúrgico. *Complutum*, **2017**, 28, 51-69	0.2	1
7	Captación y selección de materias primas en la primera metalurgia del Sureste de la península ibérica. *Trabajos De Prehistoria*, **2020**, 77, 87	0.6	1
6	Environmental and geochemical characterization of alkaline mine wastes from Phalaborwa (Palabora) Complex, South Africa. *Journal of Geochemical Exploration*, **2021**, 224, 106757	3.8	1
5	Effects of redox oscillations on the phosphogypsum waste in an estuarine salt-marsh system. *Chemosphere*, **2020**, 242, 125174	8.4	1
4	Bioaccessibility and human exposure to metals in urban soils (Huelva, SW Spain): evaluation by in vitro gastric extraction. *Environmental Geochemistry and Health*, **2021**, 1	4.7	1
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