Jose Miguel Nieto

List of Publications by Year in descending order

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158 papers	7,383 citations	41323 49 h-index	66879 78 g-index
159 all docs	159 docs citations	159 times ranked	5866 citing authors

#	Article	IF	Citations
1	The behavior of trace elements during schwertmannite precipitation and subsequent transformation into goethite and jarosite. Geochimica Et Cosmochimica Acta, 2006, 70, 4130-4139.	1.6	322
2	Mineral sequestration of CO2 by aqueous carbonation of coal combustion fly-ash. Journal of Hazardous Materials, 2009, 161, 1347-1354.	6.5	286
3	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, 445-455.	4.8	263
4	Seasonal water quality variations in a river affected by acid mine drainage: the Odiel River (South) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.9	212
5	Recovery of Rare Earth Elements and Yttrium from Passive-Remediation Systems of Acid Mine Drainage. Environmental Science & Technology, 2016, 50, 8255-8262.	4.6	204
6	Changes in mobility of hazardous elements during coal combustion in Santa Catarina power plant (Brazil). Fuel, 2012, 94, 495-503.	3.4	185
7	Evaluation of the dissolved contaminant load transported by the Tinto and Odiel rivers (South West) Tj ETQq1 1 0.784314 rgBT /Over	1.4	156
8	Hydrogeochemical characteristics of the Tinto and Odiel Rivers (SW Spain). Factors controlling metal contents. Science of the Total Environment, 2007, 373, 363-382.	3.9	156
9	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.	1.4	150
10	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.	1.2	131
11	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, 745-750.	6.5	127
12	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.	1.4	126
13	Use of sequential extraction procedure for assessing the environmental impact at regional scale of the SÃ£o Domingos Mine (Iberian Pyrite Belt). Applied Geochemistry, 2008, 23, 3452-3463.	1.4	112
14	Analysis of the spatial variation of heavy metals in the Guadiana Estuary sediments (SW Iberian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	0.9	110
15	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, 3666-3679.	3.9	106
16	Hydrochemical variations and contaminant load in the RÃo Tinto (Spain) during flood events. Journal of Hydrology, 2008, 350, 25-40.	2.3	97
17	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, 1799-1808.	2.3	95
18	Carbonation of alkaline paper mill waste to reduce CO2 greenhouse gas emissions into the atmosphere. Applied Geochemistry, 2008, 23, 2292-2300.	1.4	94

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19	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.	1.5	93
20	Potential environmental impact at SÃ£o Domingos mining district (Iberian Pyrite Belt, SW Iberian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2008, 55, 1797-1809.	1.2	88
21	Petrology and metamorphic evolution of ultramafic rocks and dolerite dykes of the Betic Ophiolitic Association (MulhacÃ©n Complex, SE Spain): evidence of eo-Alpine subduction following an ocean-floor metasomatic process. Lithos, 1999, 49, 23-56.	0.6	86
22	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.	1.4	86
23	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, 7509-7519.	2.7	85
24	Tectonostratigraphic subdivision and petrological characterisation of the deepest complexes of the Betic zone: a review. Geodinamica Acta, 2002, 15, 23-43.	2.2	83
25	Rare earth element geochemistry of sulphide weathering in the SÃ£o Domingos mine area (Iberian Pyrite) Tj ETQq1 1 0.784314 rgBT /O 29-40.	1.4	82
26	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, 4763-4771.	3.9	79
27	Evaluation of heavy metal bio-availability from Almagrera pyrite-rich tailings dam (Iberian Pyrite Belt,) Tj ETQq1 1 0.784314 rgBT /Over 87-94.	1.5	75
28	The smelting quarter of Valencina de la ConcepciÃ³n (Seville, Spain): the specialised copper industry in a political centre of the Guadalquivir Valley during the Third millennium BC (2750â€“2500 BC). Journal of Archaeological Science, 2008, 35, 717-732.	1.2	72
29	Acid mine drainage in the Iberian Pyrite Belt: 2. Lessons learned from recent passive remediation experiences. Environmental Science and Pollution Research, 2013, 20, 7837-7853.	2.7	71
30	Field multi-step limestone and MgO passive system to treat acid mine drainage with high metal concentrations. Applied Geochemistry, 2009, 24, 2301-2311.	1.4	70
31	Natural pretreatment and passive remediation of highly polluted acid mine drainage. Journal of Environmental Management, 2012, 104, 93-100.	3.8	70
32	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, 3613-3619.	3.7	69
33	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, 1637-1646.	4.2	68
34	Wash-out processes of evaporitic sulfate salts in the Tinto river: Hydrogeochemical evolution and environmental impact. Applied Geochemistry, 2010, 25, 288-301.	1.4	66
35	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, 323-330.	3.9	66
36	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, 1031-1044.	3.9	65

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37	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.	4.6	65
38	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.	1.5	63
39	Inorganic arsenic speciation at river basin scales: The Tinto and Odiel Rivers in the Iberian Pyrite Belt, SW Spain. Environmental Pollution, 2009, 157, 1202-1209.	3.7	62
40	Petrology, geochemistry and Uâ€“Pb geochronology of the Betic Ophiolites: Inferences for Pangaea break-up and birth of the westernmost Tethys Ocean. Lithos, 2011, 124, 255-272.	0.6	62
41	Natural attenuation processes in two water reservoirs receiving acid mine drainage. Science of the Total Environment, 2009, 407, 2051-2062.	3.9	60
42	An anomalous metal-rich phosphogypsum: Characterization and classification according to international regulations. Journal of Hazardous Materials, 2017, 331, 99-108.	6.5	60
43	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.	0.3	58
44	Biologically-induced precipitation of sphaleriteâ€“wurtzite nanoparticles by sulfate-reducing bacteria: Implications for acid mine drainage treatment. Science of the Total Environment, 2012, 423, 176-184.	3.9	57
45	Metastability, nanocrystallinity and pseudo-solid solution effects on the understanding of schwertmannite solubility. Chemical Geology, 2013, 360-361, 22-31.	1.4	53
46	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.	3.9	53
47	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.	3.9	53
48	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.	0.9	50
49	Evaluation of heavy metals and arsenic speciation discharged by the industrial activity on the Tinto-Odiel estuary, SW Spain. Marine Pollution Bulletin, 2011, 62, 405-411.	2.3	50
50	The iron-coating role on the oxidation kinetics of a pyritic sludge doped with fly ash. Geochimica Et Cosmochimica Acta, 2007, 71, 1921-1934.	1.6	49
51	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.	2.3	49
52	Environmental assessment and management of metal-rich wastes generated in acid mine drainage passive remediation systems. Journal of Hazardous Materials, 2012, 229-230, 107-114.	6.5	47
53	Neutralization of acid mine drainage using the final product from CO2 emissions capture with alkaline paper mill waste. Journal of Hazardous Materials, 2010, 177, 762-772.	6.5	46
54	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.	1.7	46

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55	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.	1.4	45
56	Environmental tracers for elucidating the weathering process in a phosphogypsum disposal site: Implications for restoration. Journal of Hydrology, 2015, 529, 1313-1323.	2.3	45
57	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.	3.9	45
58	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.	0.7	42
59	Gold in the Southwest of the Iberian Peninsula during the 3rd Millennium BC. Journal of Archaeological Science, 2014, 41, 691-704.	1.2	42
60	Tectonostratigraphic subdivision and petrological characterisation of the deepest complexes of the Betic zone: a review. Geodinamica Acta, 2002, 15, 23-43.	2.2	41
61	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.	6.5	41
62	Exploration of fertilizer industry wastes as potential source of critical raw materials. Journal of Cleaner Production, 2017, 143, 497-505.	4.6	41
63	CONTRASTING P T PATHS IN ECLOGITES OF THE BETIC OPHIOLITIC ASSOCIATION, MULHACEN COMPLEX, SOUTHEASTERN SPAIN. Canadian Mineralogist, 2000, 38, 1137-1161.	0.3	40
64	Environmental Impact of Mining Activities in the Southern Sector of the Guadiana Basin (SW of the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.1	40
65	Background Conditions and Mining Pollution throughout History in the RÃo Tinto (SW Spain). Environments - MDPI, 2015, 2, 295-316.	1.5	39
66	Erica andevalensis and Erica australis growing in the same extreme environments: Phytostabilization potential of mining areas. Geoderma, 2014, 230-231, 194-203.	2.3	38
67	Arsenate and Selenate Scavenging by Basaluminite: Insights into the Reactivity of Aluminum Phases in Acid Mine Drainage. Environmental Science & Technology, 2017, 51, 28-37.	4.6	37
68	Closing the upcoming EU gypsum gap with phosphogypsum. Resources, Conservation and Recycling, 2022, 182, 106328.	5.3	36
69	Attenuation of pyrite oxidation with a fly ash pre-barrier: Reactive transport modelling of column experiments. Applied Geochemistry, 2009, 24, 1712-1723.	1.4	35
70	Diel cycles of arsenic speciation due to photooxidation in acid mine drainage from the Iberian Pyrite Belt (Sw Spain). Chemosphere, 2007, 66, 677-683.	4.2	34
71	New preservation method for inorganic arsenic speciation in acid mine drainage samples. Talanta, 2006, 69, 1182-1189.	2.9	33
72	Pollutant transport processes in the Odiel River (SW Spain) during rain events. Water Resources Research, 2012, 48, .	1.7	33

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73	Causes and impacts of a mine water spill from an acidic pit lake (Iberian Pyrite Belt). Environmental Pollution, 2019, 250, 127-136.	3.7	33
74	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.	1.4	32
75	Iron isotopes in acid mine waters and iron-rich solids from the Tintoâ€“Odiel Basin (Iberian Pyrite Belt,) Tj ETQq1 1 0.784314 rgBT /Over	1.4	31
76	Assessment of phosphogypsum impact on the salt-marshes of the Tinto river (SW Spain): Role of natural attenuation processes. Marine Pollution Bulletin, 2011, 62, 2787-2796.	2.3	31
77	The Betic Ophiolites and the Mesozoic Evolution of the Western Tethys. Geosciences (Switzerland), 2017, 7, 31.	1.0	31
78	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.	0.3	30
79	Water acidification trends in a reservoir of the Iberian Pyrite Belt (SW Spain). Science of the Total Environment, 2016, 541, 400-411.	3.9	30
80	Effects of seawater mixing on the mobility of trace elements in acid phosphogypsum leachates. Marine Pollution Bulletin, 2018, 127, 695-703.	2.3	30
81	Stable isotope insights into the weathering processes of a phosphogypsum disposal area. Water Research, 2018, 140, 344-353.	5.3	30
82	Mercury in the Tinto-Odiel Estuarine System (Gulf of CÃ¡diz, Spain): Sources and Dispersion. Aquatic Geochemistry, 2001, 7, 1-12.	1.5	29
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.	1.9	29
84	Evaluation of organic substrates to enhance the sulfate-reducing activity in phosphogypsum. Science of the Total Environment, 2012, 439, 106-113.	3.9	29
85	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.	0.9	28
86	Influence of releases from a fresh water reservoir on the hydrochemistry of the Tinto River (SW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	3.9	28
87	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, 5761-5771.	3.9	27
88	Arsenic speciation in soils and Erica andevalensis Cabezudo & Rivera and Erica australis L. from SÃ£o Domingos Mine area, Portugal. Journal of Geochemical Exploration, 2012, 119-120, 51-59.	1.5	27
89	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.	1.1	27
90	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). Catena, 2016, 137, 12-23.	2.2	26

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91	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.	0.9	25
92	Source and impact of lead contamination on Î´-aminolevulinic acid dehydratase activity in several marine bivalve species along the Gulf of Cadiz. Aquatic Toxicology, 2011, 101, 146-154.	1.9	25
93	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.	2.7	25
94	Sulfate reduction processes in salt marshes affected by phosphogypsum: Geochemical influences on contaminant mobility. Journal of Hazardous Materials, 2018, 350, 154-161.	6.5	25
95	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.	0.8	24
96	Prediction of the environmental impact of modern slags: A petrological and chemical comparative study with Roman age slags. American Mineralogist, 2009, 94, 1417-1427.	0.9	23
97	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.	2.3	23
98	Preservation procedures for arsenic speciation in a stream affected by acid mine drainage in southwestern Spain. Analytical and Bioanalytical Chemistry, 2006, 384, 1594-1599.	1.9	22
99	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.	1.4	22
100	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.	1.4	22
101	Rare earth elements mobility processes in an AMD-affected estuary: Huelva Estuary (SW Spain). Marine Pollution Bulletin, 2017, 121, 282-291.	2.3	22
102	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.	1.4	21
103	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.	0.9	20
104	The Las Cruces deposit, Iberian Pyrite Belt, Spain. Ore Geology Reviews, 2015, 66, 25-46.	1.1	20
105	Acid neutralization by dissolution of alkaline paper mill wastes and implications for treatment of sulfide-mine drainage. American Mineralogist, 2011, 96, 781-791.	0.9	19
106	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.	1.4	19
107	The nanocrystalline structure of basaluminite, an aluminum hydroxide sulfate from acid mine drainage. American Mineralogist, 2017, 102, 2381-2389.	0.9	19
108	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.	1.5	19

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109	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, 7826-7833.	4.6	18
110	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.	1.8	18
111	The Evolution of Pollutant Concentrations in a River Severely Affected by Acid Mine Drainage: RÃo Tinto (SW Spain). Minerals (Basel, Switzerland), 2020, 10, 598.	0.8	18
112	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.	1.4	17
113	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.	1.5	17
114	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.	3.9	16
115	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.	1.4	15
116	Metal fractionation in marine sediments acidified by enrichment of CO2: A risk assessment. Marine Pollution Bulletin, 2018, 131, 611-619.	2.3	15
117	Influence of As(V) on precipitation and transformation of schwertmannite in acid mine drainage-impacted waters. European Journal of Mineralogy, 2019, 31, 237-245.	0.4	15
118	The contaminant load transported by the river Odiel to the Gulf of CÃ¡diz (SW Spain). Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science, 2004, 113, 117-122.	0.8	14
119	CHEMICAL AND STRUCTURAL EVOLUTION OF "METAMORPHIC VERMICULITE" IN METACLASTIC ROCKS OF THE BETIC CORDILLERA, MALAGA, SPAIN: A SYNTHESIS. Canadian Mineralogist, 2006, 44, 249-265.	0.3	14
120	Geochemical processes in a highly acidic pit lake of the Iberian Pyrite Belt (SW Spain). Chemical Geology, 2015, 395, 144-153.	1.4	14
121	Eco-sustainable passive treatment for mine waters: Full-scale and long-term demonstration. Journal of Environmental Management, 2021, 280, 111699.	3.8	14
122	The Betic Ophiolitic Association: A Very Significant Geological Heritage That Needs to be Preserved. Geoheritage, 2009, 1, 11-31.	1.5	13
123	Occurrence and mobility of As in the YlÃ¶jÃrvi Cuâ€“Wâ€“As mine tailings. Journal of Geochemical Exploration, 2012, 114, 36-45.	1.5	13
124	Trace element-mineral associations in modern and ancient iron terraces in acid drainage environments. Catena, 2016, 147, 386-393.	2.2	12
125	Mineralogically-induced metal partitioning during the evaporative precipitation of efflorescent sulfate salts from acid mine drainage. Chemical Geology, 2019, 530, 119339.	1.4	12
126	Mineral reactivity in sulphide mine wastes: influence of mineralogy and grain size on metal release. European Journal of Mineralogy, 2019, 31, 263-273.	0.4	12

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127	Mineralogical evolution of the Las Cruces gossan cap (Iberian Pyrite Belt): From subaerial to underground conditions. Ore Geology Reviews, 2017, 80, 377-405.	1.1	11
128	Geochemical behaviour and transport of technology critical metals (TCMs) by the Tinto River (SW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.9	11
129	Mine waste from carbonatite deposits as potential rare earth resource: Insight into the Phalaborwa (Palabora) Complex. Journal of Geochemical Exploration, 2022, 232, 106884.	1.5	11
130	Unraveling the impact of chronic exposure to metal pollution through human gallstones. Science of the Total Environment, 2018, 624, 1031-1040.	3.9	10
131	Diverse mineral assemblages of acidic alteration in the Rio Tinto area (southwest Spain): Implications for Mars. American Mineralogist, 2018, 103, 1877-1890.	0.9	10
132	Release of technology critical metals during sulfide oxidation processes: the case of the Poderosa sulfide mine (south-west Spain). Environmental Chemistry, 2020, 17, 93.	0.7	10
133	Metal(loid) Attenuation Processes in an Extremely Acidic River: The Rio Tinto (SW Spain). Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	9
134	Bioavailability and toxicity of metals from a contaminated sediment by acid mine drainage: linking exposureâ€“response relationships of the freshwater bivalve Corbicula fluminea to contaminated sediment. Environmental Science and Pollution Research, 2016, 23, 22957-22967.	2.7	9
135	Role of Arsenic During the Aging of Acid Mine Drainage Precipitates. Procedia Earth and Planetary Science, 2017, 17, 233-236.	0.6	9
136	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.	2.3	9
137	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.	0.7	9
138	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.	1.1	9
139	Petrology, geodynamic evolution and georesources of the Natural Space of Sierra Nevada. Estudios Geologicos, 2007, 63, .	0.7	9
140	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.	0.6	7
141	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.	2.1	7
142	Assessment of the dissolved pollutant flux of the Odiel River (SW Spain) during a wet period. Science of the Total Environment, 2013, 463-464, 572-580.	3.9	6
143	Basaluminite Structure and its Environmental Implications. Procedia Earth and Planetary Science, 2017, 17, 237-240.	0.6	6
144	DIET AND ENVIRONMENT IN SOUTHâ€EASTERN IBERIA DURING THE BRONZE AGE, BASED ON ISOTOPE ANALYSIS OF HUMAN REMAINS. Oxford Journal of Archaeology, 2019, 38, 189-213.	0.3	6

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145	Effects of redox oscillations on the phosphogypsum waste in an estuarine salt-marsh system. Chemosphere, 2020, 242, 125174.	4.2	6
146	Determination of denudation rates by the measurement of meteoric 10Be in Guadiana river sediment samples (Spain) by low-energy AMS. Journal of Environmental Radioactivity, 2018, 189, 227-235.	0.9	5
147	Bioaccessibility and human exposure to metals in urban soils (Huelva, SW Spain): evaluation by in vitro gastric extraction. Environmental Geochemistry and Health, 2022, 44, 1501-1519.	1.8	5
148	Environmental and geochemical characterization of alkaline mine wastes from Phalaborwa (Palabora) Complex, South Africa. Journal of Geochemical Exploration, 2021, 224, 106757.	1.5	4
149	MÃ¡s allÃ¡ de las tipologÃas: propuesta de organizaciÃ³n social de la producciÃ³n alfarera en Valencina de la ConcepciÃ³n (Sevilla).. Spal, 2019, 1, 11-34.	0.2	4
150	CaptaciÃ³n y selecciÃ³n de materias primas en la primera metalurgia del Sureste de la penÃnsula ibÃ©rica. Trabajos De Prehistoria, 2020, 77, 87.	0.2	4
151	Comment on â€œIdentification of the subsurface sulfide bodies responsible for acidity in RÃo Tinto source water, Spainâ€•by GÃ³mez-Ortiz et al. (Earth Planet. Sci. Lett. 391 (2014) 36â€“41). Earth and Planetary Science Letters, 2014, 403, 456-458.	1.8	3
152	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.	0.6	3
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