

Aguasanta Miguel Sarmiento

List of Publications by Citations

Source:

<https://exaly.com/author-pdf/6461286/aguasanta-miguel-sarmiento-publications-by-citations.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56 papers	1,967 citations	24 h-index	43 g-index
58 ext. papers	2,206 ext. citations	6.3 avg, IF	4.6 L-index

#	Paper	IF	Citations
56	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. <i>Environment International</i> , 2007 , 33, 445-559	12.9	223
55	Seasonal water quality variations in a river affected by acid mine drainage: the Odiel River (South West Spain). <i>Science of the Total Environment</i> , 2004 , 333, 267-81	10.2	191
54	Hydrogeochemical characteristics of the Tinto and Odiel Rivers (SW Spain). Factors controlling metal contents. <i>Science of the Total Environment</i> , 2007 , 373, 363-82	10.2	138
53	Evaluation of the dissolved contaminant load transported by the Tinto and Odiel rivers (South West Spain). <i>Applied Geochemistry</i> , 2006 , 21, 1733-1749	3.5	136
52	Hydrochemical characteristics and seasonal influence on the pollution by acid mine drainage in the Odiel river Basin (SW Spain). <i>Applied Geochemistry</i> , 2009 , 24, 697-714	3.5	131
51	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	10.2	76
50	Toxicity and potential risk assessment of a river polluted by acid mine drainage in the Iberian Pyrite Belt (SW Spain). <i>Science of the Total Environment</i> , 2011 , 409, 4763-71	10.2	65
49	Acid mine drainage in the Iberian Pyrite Belt: 1. Hydrochemical characteristics and pollutant load of the Tinto and Odiel rivers. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 7509-19	5.1	59
48	Effects on the mobility of metals from acidification caused by possible CO ₂ leakage from sub-seabed geological formations. <i>Science of the Total Environment</i> , 2014 , 470-471, 356-63	10.2	56
47	Inorganic arsenic speciation at river basin scales: the Tinto and Odiel rivers in the Iberian Pyrite Belt, SW Spain. <i>Environmental Pollution</i> , 2009 , 157, 1202-9	9.3	55
46	Natural attenuation processes in two water reservoirs receiving acid mine drainage. <i>Science of the Total Environment</i> , 2009 , 407, 2051-62	10.2	52
45	Metal mobility and toxicity to microalgae associated with acidification of sediments: CO ₂ and acid comparison. <i>Marine Environmental Research</i> , 2014 , 96, 136-44	3.3	51
44	Assessment of metal contamination, bioavailability, toxicity and bioaccumulation in extreme metallic environments (Iberian Pyrite Belt) using <i>Corbicula fluminea</i> . <i>Science of the Total Environment</i> , 2016 , 544, 1031-44	10.2	50
43	Application of the SWAT model to an AMD-affected river (Meca River, SW Spain). Estimation of transported pollutant load. <i>Journal of Hydrology</i> , 2009 , 377, 445-454	6	44
42	Environmental Impact of Mining Activities in the Southern Sector of the Guadiana Basin (SW of the Iberian Peninsula). <i>Water, Air, and Soil Pollution</i> , 2009 , 199, 323-341	2.6	37
41	Metal cycling during sediment early diagenesis in a water reservoir affected by acid mine drainage. <i>Science of the Total Environment</i> , 2013 , 461-462, 416-29	10.2	33
40	Diel cycles of arsenic speciation due to photooxidation in acid mine drainage from the Iberian Pyrite Belt (Sw Spain). <i>Chemosphere</i> , 2007 , 66, 677-83	8.4	30

39	Pollutant transport processes in the Odiel River (SW Spain) during rain events. <i>Water Resources Research</i> , 2012 , 48,	5.4	29
38	Evaluation of heavy metals and arsenic speciation discharged by the industrial activity on the Tinto-Odiel estuary, SW Spain. <i>Marine Pollution Bulletin</i> , 2011 , 62, 405-11	6.7	29
37	New preservation method for inorganic arsenic speciation in acid mine drainage samples. <i>Talanta</i> , 2006 , 69, 1182-9	6.2	28
36	A novel approach for acid mine drainage pollution biomonitoring using rare earth elements bioaccumulated in the freshwater clam <i>Corbicula fluminea</i> . <i>Journal of Hazardous Materials</i> , 2017 , 338, 466-471	12.8	27
35	Dissolved and particulate metals and arsenic species mobility along a stream affected by Acid Mine Drainage in the Iberian Pyrite Belt (SW Spain). <i>Applied Geochemistry</i> , 2012 , 27, 1944-1952	3.5	27
34	Water Quality in the Future Alcolea Reservoir (Odiel River, SW Spain): A Clear Example of the Inappropriate Management of Water Resources in Spain. <i>Water Resources Management</i> , 2011 , 25, 201-215	3.7	26
33	Iron isotopes in acid mine waters and iron-rich solids from the Tinto-Odiel Basin (Iberian Pyrite Belt, Southwest Spain). <i>Chemical Geology</i> , 2008 , 253, 162-171	4.2	26
32	Evaluation of organic substrates to enhance the sulfate-reducing activity in phosphogypsum. <i>Science of the Total Environment</i> , 2012 , 439, 106-13	10.2	24
31	Source and impact of lead contamination on δ -aminolevulinic acid dehydratase activity in several marine bivalve species along the Gulf of Cadiz. <i>Aquatic Toxicology</i> , 2011 , 101, 146-54	5.1	23
30	Assessment of phosphogypsum impact on the salt-marshes of the Tinto river (SW Spain): role of natural attenuation processes. <i>Marine Pollution Bulletin</i> , 2011 , 62, 2787-96	6.7	22
29	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). <i>Catena</i> , 2016 , 137, 12-23	5.8	21
28	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	5.1	19
27	Negative pH values in an open-air radical environment affected by acid mine drainage. Characterization and proposal of a hydrogeochemical model. <i>Science of the Total Environment</i> , 2018 , 644, 1244-1253	10.2	19
26	Simulation of the potential effects of CO ₂ leakage from carbon capture and storage activities on the mobilization and speciation of metals. <i>Marine Pollution Bulletin</i> , 2014 , 86, 59-67	6.7	19
25	Hydrological modeling of a watershed affected by acid mine drainage (Odiel River, SW Spain). Assessment of the pollutant contributing areas. <i>Journal of Hydrology</i> , 2016 , 540, 196-206	6	18
24	Preservation procedures for arsenic speciation in a stream affected by acid mine drainage in southwestern Spain. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 1594-9	4.4	18
23	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). <i>Chemical Geology</i> , 2011 , 284, 97-104	4.2	17
22	The use of a Weight-of-Evidence approach to address sediment quality in the Odiel River basin (SW, Spain). <i>Ecotoxicology and Environmental Safety</i> , 2016 , 133, 243-51	7	14

21	Rare earth elements mobility processes in an AMD-affected estuary: Huelva Estuary (SW Spain). <i>Marine Pollution Bulletin</i> , 2017 , 121, 282-291	6.7	13
20	Effects of seawater mixing on the mobility of trace elements in acid phosphogypsum leachates. <i>Marine Pollution Bulletin</i> , 2018 , 127, 695-703	6.7	13
19	Geochemical behavior of an acid drainage system: the case of the Amarillo River, Famatina (La Rioja, Argentina). <i>Environmental Science and Pollution Research</i> , 2017 , 24, 1630-1647	5.1	13
18	Refining the estimation of metal loads dissolved in acid mine drainage by continuous monitoring of specific conductivity and water level. <i>Applied Geochemistry</i> , 2012 , 27, 1932-1943	3.5	12
17	River acid mine drainage: sediment and water mapping through hyperspectral Hymap data. <i>International Journal of Remote Sensing</i> , 2012 , 33, 6163-6185	3.1	11
16	Metal fractionation in marine sediments acidified by enrichment of CO: A risk assessment. <i>Marine Pollution Bulletin</i> , 2018 , 131, 611-619	6.7	10
15	The Negro River (Ancash-Peru): A unique case of water pollution, three environmental scenarios and an unresolved issue. <i>Science of the Total Environment</i> , 2019 , 648, 398-407	10.2	10
14	Monitoring acidic water in a polluted river with hyperspectral remote sensing (HyMap). <i>Hydrological Sciences Journal</i> , 2015 , 60, 1064-1077	3.5	9
13	Physico-Chemical Influence of Surface Water Contaminated by Acid Mine Drainage on the Populations of Diatoms in Dams (Iberian Pyrite Belt, SW Spain). <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	9
12	Bioavailability and toxicity of metals from a contaminated sediment by acid mine drainage: linking exposure-response relationships of the freshwater bivalve <i>Corbicula fluminea</i> to contaminated sediment. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 22957-22967	5.1	8
11	Application of fuzzy logic tools for the biogeochemical characterisation of (un)contaminated waters from Aljustrel mining area (South Portugal). <i>Chemosphere</i> , 2018 , 211, 736-744	8.4	7
10	The UNESCO national biosphere reserve (Marismas del Odiel, SW Spain): an area of 18,875ha affected by mining waste. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 33594-33606	5.1	5
9	Metal contamination and fractionation in sediments from the lower basin of the Vale do Ribeira (SE, Brazil). <i>Environmental Monitoring and Assessment</i> , 2017 , 189, 245	3.1	4
8	Determination of the extreme reduction of concrete strength due to acid mine drainage by laboratory tests on specimens located in a real environment. <i>Construction and Building Materials</i> , 2021 , 269, 121817	6.7	3
7	Preliminary Results of Ecotoxicological Assessment of an Acid Mine Drainage (AMD) Passive Treatment System Testing Water Quality of Depurated Lixiviates. <i>Procedia Earth and Planetary Science</i> , 2017 , 17, 269-272		2
6	Acid Mine Drainage as Energizing Microbial Niches for the Formation of Iron Stromatolites: The Tintillo River in Southwest Spain. <i>Astrobiology</i> , 2021 , 21, 443-463	3.7	2
5	Corrosion of Metallic and Structural Elements Exposed to Acid Mine Drainage (AMD). <i>Mine Water and the Environment</i> , 2020 , 39, 195-203	2.4	1
4	Integrative assessment of sediment quality in lower basin affected by former mining in Brazil. <i>Environmental Geochemistry and Health</i> , 2018 , 40, 1465-1480	4.7	1

3	Application of a Fuzzy Logic Based Methodology to Validate the Hydrochemical Characterization and Determining Seasonal Influence of a Watershed Affected by Acid Mine Drainage. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
2	Biogeochemical indicators (waters/diatoms) of acid mine drainage pollution in the Odiel river (Iberian Pyritic Belt, SW Spain).. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
1	Wasted Critical Raw Materials: a Polluted Environmental Scenario as Potential Source of Economic Interest Elements in the Spanish Part of the Iberian Pyrite Belt. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	0