

# Manuel OlÃ- as

## List of Publications by Year in descending order

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77  
papers

2,854  
citations

201385

27  
h-index

174990

52  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2811  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 445-455.	4.8	263
2	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
3	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
4	Hydrogeochemical characteristics of the Tinto and Odiel Rivers (SW Spain). Factors controlling metal contents. <i>Science of the Total Environment</i> , 2007, 373, 363-382.	3.9	156
5	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.	1.4	150
6	Geochemical evolution of groundwater in the carbonate aquifers of Sierra de Segura (Betic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 T	2.3	122
7	The present environmental scenario of the Nador Lagoon (Morocco). <i>Environmental Research</i> , 2006, 102, 215-229.	3.7	98
8	Distribution of rare earth elements in an alluvial aquifer affected by acid mine drainage: the Guadiamar aquifer (SW Spain). <i>Environmental Pollution</i> , 2005, 135, 53-64.	3.7	97
9	Hydrochemical variations and contaminant load in the R�o Tinto (Spain) during flood events. <i>Journal of Hydrology</i> , 2008, 350, 25-40.	2.3	97
10	Evidence of high-energy events in the geological record: Mid-holocene evolution of the southwestern Do�ana National Park (SW Spain). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 229, 212-229.	1.0	88
11	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, 7509-7519.	2.7	85
12	Wash-out processes of evaporitic sulfate salts in the Tinto river: Hydrogeochemical evolution and environmental impact. <i>Applied Geochemistry</i> , 2010, 25, 288-301.	1.4	66
13	Natural attenuation processes in two water reservoirs receiving acid mine drainage. <i>Science of the Total Environment</i> , 2009, 407, 2051-2062.	3.9	60
14	Biologically-induced precipitation of sphalerite�wurtzite nanoparticles by sulfate-reducing bacteria: Implications for acid mine drainage treatment. <i>Science of the Total Environment</i> , 2012, 423, 176-184.	3.9	57
15	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.	2.3	49
16	Rainfall estimation in SWAT: An alternative method to simulate orographic precipitation. <i>Journal of Hydrology</i> , 2014, 509, 257-265.	2.3	46
17	Geochemical behaviour of rare earth elements (REE) along a river reach receiving inputs of acid mine drainage. <i>Chemical Geology</i> , 2018, 493, 468-477.	1.4	46
18	Water quality of the Guadiamar River after the Aznalc�llar spill (SW Spain). <i>Chemosphere</i> , 2006, 62, 213-225.	4.2	45

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19	The present environmental scenario of El Melah Lagoon (NE Tunisia) and its evolution to a future sabkha. <i>Journal of African Earth Sciences</i> , 2006, 44, 289-302.	0.9	44
20	Correlation between foraminifera and sedimentary environments in recent estuaries of Southwestern Spain: Applications to holocene reconstructions. <i>Quaternary International</i> , 2005, 140-141, 21-36.	0.7	42
21	Background Conditions and Mining Pollution throughout History in the RÃo Tinto (SW Spain). <i>Environments - MDPI</i> , 2015, 2, 295-316.	1.5	39
22	Pollutant transport processes in the Odiel River (SW Spain) during rain events. <i>Water Resources Research</i> , 2012, 48, .	1.7	33
23	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
24	Geochemical behavior of metals and metalloids in an estuary affected by acid mine drainage (AMD). <i>Environmental Science and Pollution Research</i> , 2014, 21, 2611-2627.	2.7	32
25	Sources of precipitation over South-Eastern Spain and groundwater recharge. An isotopic study. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992, 44, 226-236.	0.8	30
26	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
27	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.	1.9	29
28	Trace metal partitioning over a tidal cycle in an estuary affected by acid mine drainage (Tinto estuary,) Tj ETQq0 0 0,rgBT /Overlock 10 T	3.9	29
29	Influence of releases from a fresh water reservoir on the hydrochemistry of the Tinto River (SW) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.9	28
30	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
31	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). <i>Catena</i> , 2016, 137, 12-23.	2.2	26
32	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
33	Uranium behaviour in an estuary polluted by mining and industrial effluents: The RÃa of Huelva (SW of) Tj ETQq1 1 0,784314 rgBT /Over	5.3	23
34	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.	2.3	23
35	Groundwater contamination evolution in the Guadiamar and Agrio aquifers after the AznalcÃ3llar spill: assessment and environmental implications. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 3629-3641.	1.3	22
36	Evaluation of the radioactive pollution in the salt-marshes under a phosphogypsum stack system. <i>Environmental Pollution</i> , 2020, 258, 113729.	3.7	22

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37	Uranium behavior during a tidal cycle in an estuarine system affected by acid mine drainage (AMD). <i>Chemical Geology</i> , 2013, 342, 110-118.	1.4	20
38	Water quality and distribution of trace elements in the Doñana aquifer (SW Spain). <i>Environmental Geology</i> , 2008, 55, 1555-1568.	1.2	19
39	Pollution evaluation on the salt-marshes under the phosphogypsum stacks of Huelva due to deep leachates. <i>Chemosphere</i> , 2019, 230, 219-229.	4.2	19
40	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
41	State of Contamination of the Waters in the Guadiamar Valley Five Years after the Aznalc��llar Spill. <i>Water, Air, and Soil Pollution</i> , 2005, 166, 103-119.	1.1	18
42	The Evolution of Pollutant Concentrations in a River Severely Affected by Acid Mine Drainage: R��o Tinto (SW Spain). <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 598.	0.8	18
43	Application of lead stable isotopes to the Guadiamar Aquifer study after the mine tailings spill in Aznalc��llar (SW Spain). <i>Environmental Geology</i> , 2005, 47, 197-204.	1.2	15
44	Conjunctive use of water resources as an alternative to a leaky reservoir in a mountainous, semiarid area (Adra River basin, SE Spain). <i>Hydrogeology Journal</i> , 2009, 17, 1779-1790.	0.9	15
45	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.	1.4	15
46	Dissolved and particulate metal fluxes in an AMD-affected stream under different hydrological conditions: The Odiel River (SW Spain). <i>Catena</i> , 2018, 165, 414-424.	2.2	15
47	Temporal evolution of acid mine drainage (AMD) leachates from the abandoned tharsis mine (Iberian Tj ETQq1 1 0,784314 rgBT /Ovele	3.7	15
48	The contaminant load transported by the river Odiel to the Gulf of C��diz (SW Spain). <i>Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science</i> , 2004, 113, 117-122.	0.8	14
49	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
50	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
51	Trace elements in Holocene sediments of the southern Doñana National Park (SW Spain): historical pollution and applications. <i>Environmental Earth Sciences</i> , 2011, 64, 1215-1223.	1.3	13
52	Seasonal evolution of natural radionuclides in two rivers affected by acid mine drainage and phosphogypsum pollution. <i>Catena</i> , 2021, 197, 104978.	2.2	13
53	Geochemistry of Quaternary sediments in terraces of the Tinto River (SW Spain): Paleoenvironmental implications. <i>Catena</i> , 2013, 101, 1-10.	2.2	12
54	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

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55	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
56	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
57	Silver and copper as pollution tracers in Neogene to Holocene estuarine sediments from southwestern Spain. <i>Marine Pollution Bulletin</i> , 2020, 150, 110704.	2.3	11
58	Inputs and fate of contaminants in a reservoir with circumneutral water affected by acid mine drainage. <i>Science of the Total Environment</i> , 2021, 762, 143614.	3.9	11
59	Geochemical behaviour and transport of technology critical metals (TCMs) by the Tinto River (SW) Tj ETQq1 1 0.784314 rgBT/Overlook	3.9	11
60	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
61	Metal(loid) Attenuation Processes in an Extremely Acidic River: The Rio Tinto (SW Spain). <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	9
62	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
63	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
64	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
65	Assessment of the dissolved pollutant flux of the Odiel River (SW Spain) during a wet period. <i>Science of the Total Environment</i> , 2013, 463-464, 572-580.	3.9	6
66	Characterization of Main AMD Inputs to the Odiel River Upper Reach (SW Spain). <i>Procedia Earth and Planetary Science</i> , 2017, 17, 602-605.	0.6	5
67	Surface and Groundwater Quality Evolution in the Agrio and Guadiamar Rivers After the Aznalcallar Mine Spill (SW Spain): Lessons Learned. <i>Mine Water and the Environment</i> , 2021, 40, 235-249.	0.9	5
68	Where did Christopher Columbus start?: The estuarine scenario of a historical date. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 250, 107162.	0.9	5
69	Hydrogeological Investigation of Hydrocarbon Contamination of Ground Water in Albolote (Granada, Spain). <i>Ground Water Monitoring and Remediation</i> , 1992, 12, 188-194.	0.6	4
70	Temporal Variations of REE in Several AMD Sources of the Odiel River (SW Spain). <i>Procedia Earth and Planetary Science</i> , 2017, 17, 706-709.	0.6	4
71	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
72	Comment on "Identification of the subsurface sulfide bodies responsible for acidity in Rao Tinto source water, Spain" by Gomez-Ortiz et al. ( <i>Earth Planet. Sci. Lett.</i> 391 (2014) 36-41). <i>Earth and Planetary Science Letters</i> , 2014, 403, 456-458.	1.8	3

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73	Natural and anthropic pollution episodes during the Late Holocene evolution of the Tinto River estuary (SW Spain). <i>Scientia Marina</i> , 2021, 85, 113-123.	0.3	3
74	Characterization of hydrocarbon spreading in an alluvial aquifer by cross correlation study of precipitation and contaminant content data. <i>Water, Air, and Soil Pollution</i> , 1995, 81, 337-347.	1.1	1
75	Concentrations and activity ratios of uranium isotopes in groundwater from Donlana National Park, South of Spain. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	1
76	POLLUTION OF A RIVER BASIN IMPACTED BY ACID MINE DRAINAGE IN THE IBERIAN PYRITE BELT (SW SPAIN). <i>Journal of the American Society of Mining and Reclamation</i> , 2006, 2006, 1850-1863.	0.3	0
77	Acid mine drainage pollution in the Tinto and Odiel rivers, SW Spain. , 2007, , .		0