Manuel Olas

List of Publications by Citations

75 papers	2,281 citations	24 h-index	46 g-index
78 ext. papers	2,555 ext. citations	5.9 avg, IF	4.88 L-index

#	Paper	IF	Citations
75	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	13.9	223
74	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
73	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
72	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
71	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
70	Geochemical evolution of groundwater in the carbonate aquifers of Sierra de Segura (Betic Cordillera, southern Spain). *Journal of Hydrology*, **2008**, 360, 281-296	6	100
69	Hydrochemical variations and contaminant load in the Río Tinto (Spain) during flood events. *Journal of Hydrology*, **2008**, 350, 25-40	6	88
68	The present environmental scenario of the Nador Lagoon (Morocco). *Environmental Research*, **2006**, 102, 215-29	7.9	80
67	Distribution of rare earth elements in an alluvial aquifer affected by acid mine drainage: the Guadiamar aquifer (SW Spain). *Environmental Pollution*, **2005**, 135, 53-64	9.3	79
66	Evidence of high-energy events in the geological record: Mid-holocene evolution of the southwestern Doñana National Park (SW Spain). *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2005**, 229, 212-229	2.9	76
65	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
64	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
63	Natural attenuation processes in two water reservoirs receiving acid mine drainage. *Science of the Total Environment*, **2009**, 407, 2051-62	10.2	52
62	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
61	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
60	Water quality of the Guadiamar River after the Aznalcóllar spill (SW Spain). *Chemosphere*, **2006**, 62, 213-25	3.4	38
59	Rainfall estimation in SWAT: An alternative method to simulate orographic precipitation. *Journal of Hydrology*, **2014**, 509, 257-265	6	36

58	The present environmental scenario of El Melah Lagoon (NE Tunisia) and its evolution to a future sabkha. *Journal of African Earth Sciences*, **2006**, 44, 289-302	2.2	34
57	Correlation between foraminifera and sedimentary environments in recent estuaries of Southwestern Spain: Applications to holocene reconstructions. *Quaternary International*, **2005**, 140-141, 21-36	2	33
56	Pollutant transport processes in the Odiel River (SW Spain) during rain events. *Water Resources Research*, **2012**, 48,	5.4	29
55	. *Tellus, Series B: Chemical and Physical Meteorology*, **1992**, 44, 226-236	3.3	29
54	Background Conditions and Mining Pollution throughout History in the Río Tinto (SW Spain). *Environments - MDPI*, **2015**, 2, 295-316	3.2	27
53	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
52	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
51	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
50	Trace metal partitioning over a tidal cycle in an estuary affected by acid mine drainage (Tinto estuary, SW Spain). *Science of the Total Environment*, **2014**, 497-498, 18-28	10.2	22
49	Controls on acid mine water composition from the Iberian Pyrite Belt (SW Spain). *Catena*, **2016**, 137, 12-23	5.8	21
48	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
47	Seasonal variability of extremely metal rich acid mine drainages from the Tharsis mines (SW Spain). *Environmental Pollution*, **2020**, 259, 113829	9.3	21
46	Geochemical behaviour of rare earth elements (REE) along a river reach receiving inputs of acid mine drainage. *Chemical Geology*, **2018**, 493, 468-477	4.2	21
45	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
44	Geochemical behavior of metals and metalloids in an estuary affected by acid mine drainage (AMD). *Environmental Science and Pollution Research*, **2014**, 21, 2611-27	5.1	19
43	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
42	Groundwater contamination evolution in the Guadiamar and Agrio aquifers after the Aznalcóllar spill: assessment and environmental implications. *Environmental Monitoring and Assessment*, **2012**, 184, 3629-41	3.1	18
41	Uranium behaviour in an estuary polluted by mining and industrial effluents: the Río of Huelva (SW of Spain). *Water Research*, **2013**, 47, 6269-79	12.5	17

40	Water qualitiy and distribution of trace elements in the Doñana aquifer (SW Spain). *Environmental Geology*, **2008**, 55, 1555-1568		17
39	Application of lead stable isotopes to the Guadiamar Aquifer study after the mine tailings spill in Aznalcóllar (SW Spain). *Environmental Geology*, **2005**, 47, 197-204		14
38	State of Contamination of the Waters in the Guadiamar Valley Five Years after the Aznalcóllar Spill. *Water, Air, and Soil Pollution*, **2005**, 166, 103-119	2.6	14
37	Uranium behavior during a tidal cycle in an estuarine system affected by acid mine drainage (AMD). *Chemical Geology*, **2013**, 342, 110-118	4.2	13
36	Trace elements in Holocene sediments of the southern Doñana National Park (SW Spain): historical pollution and applications. *Environmental Earth Sciences*, **2011**, 64, 1215-1223	2.9	13
35	Dissolved and particulate metal fluxes in an AMD-affected stream under different hydrological conditions: The Odiel River (SW Spain). *Catena*, **2018**, 165, 414-424	5.8	12
34	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
33	Conjunctive use of water resources as an alternative to a leaky reservoir in a mountainous, semiarid area (Adra River basin, SE Spain). *Hydrogeology Journal*, **2009**, 17, 1779-1790	3.1	12
32	Pollution evaluation on the salt-marshes under the phosphogypsum stacks of Huelva due to deep leachates. *Chemosphere*, **2019**, 230, 219-229	8.4	11
31	Geochemistry of Quaternary sediments in terraces of the Tinto River (SW Spain): Paleoenvironmental implications. *Catena*, **2013**, 101, 1-10	5.8	11
30	The contaminant load transported by the river Odiel to the Gulf of Cádiz (SW Spain). *Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science*, **2004**, 113, 117-122		11
29	The Evolution of Pollutant Concentrations in a River Severely Affected by Acid Mine Drainage: Río Tinto (SW Spain). *Minerals (Basel, Switzerland)*, **2020**, 10, 598	2.4	11
28	Mineralogically-induced metal partitioning during the evaporative precipitation of efflorescent sulfate salts from acid mine drainage. *Chemical Geology*, **2019**, 530, 119339	4.2	11
27	Hydrological characterization and prediction of flood levels of acidic pit lakes in the Tharsis mines, Iberian Pyrite Belt. *Journal of Hydrology*, **2018**, 566, 807-817	6	11
26	Geochemical processes in a highly acidic pit lake of the Iberian Pyrite Belt (SW Spain). *Chemical Geology*, **2015**, 395, 144-153	4.2	10
25	Evaluation of the radioactive pollution in the salt-marshes under a phosphogypsum stack system. *Environmental Pollution*, **2020**, 258, 113729	9.3	10
24	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
23	Hydrogeochemical behavior of an anthropogenic mine aquifer: Implications for potential remediation measures. *Science of the Total Environment*, **2018**, 636, 85-93	10.2	8

22	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
21	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
20	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
19	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
18	Silver and copper as pollution tracers in Neogene to Holocene estuarine sediments from southwestern Spain. *Marine Pollution Bulletin*, **2020**, 150, 110704	6.7	5
17	Characterization of Main AMD Inputs to the Odiel River Upper Reach (SW Spain). *Procedia Earth and Planetary Science*, **2017**, 17, 602-605		4
16	Hydrogeological Investigation of Hydrocarbon Contamination of Ground Water in Albolote (Granada, Spain). *Ground Water Monitoring and Remediation*, **1992**, 12, 188-194	1.4	4
15	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
14	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
13	Surface and Groundwater Quality Evolution in the Agrio and Guadiamar Rivers After the Aznalcóllar Mine Spill (SW Spain): Lessons Learned. *Mine Water and the Environment*, **2021**, 40, 235-249	2.4	4
12	Temporal Variations of REE in Several AMD Sources of the Odiel River (SW Spain). *Procedia Earth and Planetary Science*, **2017**, 17, 706-709		3
11	Rare earth elements in a historical mining district (south-west Spain): Hydrogeochemical behaviour and seasonal variability. *Chemosphere*, **2020**, 253, 126742	8.4	3
10	Comment on Identification of the subsurface sulfide bodies responsible for acidity in Río 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
9	Inputs and fate of contaminants in a reservoir with circumneutral water affected by acid mine drainage. *Science of the Total Environment*, **2021**, 762, 143614	10.2	3
8	Temporal evolution of acid mine drainage (AMD) leachates from the abandoned tharsis mine (Iberian Pyrite Belt, Spain).. *Environmental Pollution*, **2021**, 295, 118697	9.3	2
7	Where did Christopher Columbus start?: The estuarine scenario of a historical date. *Estuarine, Coastal and Shelf Science*, **2021**, 250, 107162	2.9	2
6	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
5	Seasonal evolution of natural radionuclides in two rivers affected by acid mine drainage and phosphogypsum pollution. *Catena*, **2021**, 197, 104978	5.8	2

4	Characterization of hydrocarbon spreading in an alluvial aquifer by cross correlation study of precipitation and contaminant content data. *Water, Air, and Soil Pollution*, **1995**, 81, 337-347	2.6	1
3	Natural and anthropic pollution episodes during the Late Holocene evolution of the Tinto River estuary (SW Spain). *Scientia Marina*, **2021**, 85, 113-123	1.8	1
2	Recovery of Critical Raw Materials from Acid Mine Drainage (AMD) **2020**, 219-233		0
1	Stream-pit lake interactions in an abandoned mining area affected by acid drainage (Iberian Pyrite Belt).. *Science of the Total Environment*, **2022**, 155224	10.2	0