

# Miguel Angel Huerta-Diaz

## List of Publications by Year in descending order

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62  
papers

2,832  
citations

361413

20  
h-index

175258

52  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3071  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyritization of trace metals in anoxic marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 2681-2702.	3.9	772
2	A quantitative method for determination of trace metal concentrations in sedimentary pyrite. <i>Marine Chemistry</i> , 1990, 29, 119-144.	2.3	329
3	Geochemistry of trace metals associated with reduced sulfur in freshwater sediments. <i>Applied Geochemistry</i> , 1998, 13, 213-233.	3.0	265
4	Geochemistry of iron and manganese in soils and sediments of a mangrove system, Island of Pai Matos (Cananea " SP, Brazil). <i>Geoderma</i> , 2009, 148, 318-335.	5.1	150
5	Seabird colonies as important global drivers in the nitrogen and phosphorus cycles. <i>Nature Communications</i> , 2018, 9, 246.	12.8	135
6	Elemental concentrations in different species of seaweeds from Loreto Bay, Baja California Sur, Mexico: implications for the geochemical control of metals in algal tissue. <i>Environmental Pollution</i> , 2001, 114, 145-160.	7.5	134
7	A field study of metal toxicity and accumulation by benthic invertebrates; implications for the acid-volatile sulfide (AVS) model. <i>Limnology and Oceanography</i> , 1994, 39, 1653-1668.	3.1	128
8	Importance of geochemical transformations in determining submarine groundwater discharge-derived trace metal and nutrient fluxes. <i>Applied Geochemistry</i> , 2007, 22, 477-490.	3.0	119
9	Measurement of trace metals associated with acid volatile sulfides and pyrite in organic freshwater sediments. <i>Environmental Science &amp; Technology</i> , 1993, 27, 2367-2372.	10.0	56
10	Heavy metal geochemistry of saltmarsh soils from the Ria of Ortigueira (mafic and ultramafic areas.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	7.5	45
11	Influence of a turbidite deposit on the extent of pyritization of iron, manganese and trace metals in sediments from the Guaymas Basin, Gulf of California (Mexico). <i>Applied Geochemistry</i> , 2003, 18, 1149-1163.	3.0	42
12	Diagnosis of trace metal contamination in sediments: The example of Ensenada and El Sauzal, two harbors in Baja California, Mexico. <i>Marine Environmental Research</i> , 2008, 66, 345-358.	2.5	42
13	Biosorption removal of benzene and toluene by three dried macroalgae at different ionic strength and temperatures: Algae biochemical composition and kinetics. <i>Journal of Environmental Management</i> , 2017, 193, 126-135.	7.8	37
14	Calibration of handheld X-ray fluorescence (XRF) equipment for optimum determination of elemental concentrations in sediment samples. <i>Talanta</i> , 2016, 161, 359-367.	5.5	36
15	Influence of geochemical and physical processes on the vertical distribution of manganese in Gulf of California waters. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006, 53, 1301-1319.	1.4	32
16	A combined CDB-MAGIC method for the determination of phosphorus associated with sedimentary iron oxyhydroxides. <i>Applied Geochemistry</i> , 2005, 20, 2108-2115.	3.0	29
17	Iron, manganese and trace metal concentrations in seaweeds from the central west coast of the Gulf of California. <i>Applied Geochemistry</i> , 2007, 22, 1380-1392.	3.0	29
18	Seasonal behavior of dissolved cadmium and Cd/PO4 ratio in Todos Santos Bay: A retention site of upwelled waters in the Baja California peninsula, Mexico. <i>Marine Chemistry</i> , 2015, 168, 37-48.	2.3	25

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19	Iron and Trace Metals in Microbial Mats and Underlying Sediments: Results From Guerrero Negro Saltern, Baja California Sur, Mexico. <i>Aquatic Geochemistry</i> , 2011, 17, 603-628.	1.3	23
20	High enrichment of molybdenum in hypersaline microbial mats of Guerrero Negro, Baja California Sur, Mexico. <i>Chemical Geology</i> , 2014, 363, 341-354.	3.3	21
21	Millimeter-scale resolution of trace metal distributions in microbial mats from a hypersaline environment in Baja California, Mexico. <i>Geobiology</i> , 2012, 10, 531-547.	2.4	20
22	Comparative distributions of size fractionated metals in pore waters sampled by in situ dialysis and whole-core sediment squeezing: Implications for diffusive flux calculations. <i>Applied Geochemistry</i> , 2007, 22, 2509-2525.	3.0	19
23	Trace metal enrichments in nearshore sediments and accumulation in mussels ( <i>Modiolus capax</i> ) along the eastern coast of Baja California, Mexico: Environmental status in 1995. <i>Marine Pollution Bulletin</i> , 2013, 77, 71-81.	5.0	18
24	Dynamics of dissolved inorganic carbon in the Midriff Islands of the Gulf of California: Influence of water masses. <i>Ciencias Marinas</i> , 2013, 39, 183-201.	0.4	18
25	Archaeal diversity and the extent of iron and manganese pyritization in sediments from a tropical mangrove creek (Cardoso Island, Brazil). <i>Estuarine, Coastal and Shelf Science</i> , 2014, 146, 1-13.	2.1	18
26	Metal contamination in interstitial waters of Doña Ana Park. <i>Journal of Environmental Management</i> , 2006, 78, 286-293.	7.8	16
27	High variability in geochemical partitioning of iron, manganese and harmful trace metals in sediments of the mining port of Santa Rosalia, Baja California Sur, Mexico. <i>Journal of Geochemical Exploration</i> , 2014, 145, 51-63.	3.2	15
28	Chitosan-macroalgae biocomposites as potential adsorbents of water-soluble hydrocarbons: Organic matter and ionic strength effects. <i>Journal of Cleaner Production</i> , 2018, 197, 633-642.	9.3	15
29	Historical trends of polychlorinated dibenzo-p-dioxins and dibenzofurans in three dated sediment cores from Mexico. <i>Environmental Pollution</i> , 2011, 159, 487-494.	7.5	14
30	Cadmium and phosphate variability during algal blooms of the dinoflagellate <i>Lingulodinium polyedrum</i> in Todos Santos Bay, Baja California, Mexico. <i>Science of the Total Environment</i> , 2016, 541, 865-876.	8.0	13
31	Atmospheric input and concentration of dissolved iron in the surface layer of the Gulf of California. <i>Ciencias Marinas</i> , 2009, 35, .	0.4	13
32	Levels of Reactive Mercury and Silver in Sediments from the Port of Ensenada, Baja California, Mexico. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2002, 68, 138-147.	2.7	12
33	Mercury and Cadmium Concentrations in Farmed Bluefin Tuna ( <i>Thunnus orientalis</i> ) and the Suitability of Using the Caudal Peduncle Muscle Tissue as a Monitoring Tool. <i>Journal of Food Protection</i> , 2012, 75, 725-730.	1.7	12
34	Sand as a relevant fraction in geochemical studies in intertidal environments. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 7945-7959.	2.7	12
35	Mercury and Silver Concentrations in Sediments from the Port of Ensenada, Baja California, Mexico. <i>Marine Pollution Bulletin</i> , 2001, 42, 415-418.	5.0	11
36	Wintertime enrichment of inorganic nutrients in the Ballenas Channel, Gulf of California. <i>Ciencias Marinas</i> , 2013, 39, 165-182.	0.4	11

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37	Atmospheric Inputs of Iron and Manganese to Coastal Waters of the Southern California Current System: Seasonality, Santa Ana Winds, and Biogeochemical Implications. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9230-9254.	2.6	11
38	Solubility measurements and determination of Setschenow constants for the pesticide carbaryl in seawater and other electrolyte solutions. <i>Canadian Journal of Chemistry</i> , 1992, 70, 2864-2868.	1.1	10
39	Cd concentration in the soft tissue vs. the nacreous layer of <i>Mytilus californianus</i> . <i>Marine Pollution Bulletin</i> , 2005, 50, 1373-1381.	5.0	10
40	Concentrations of Calcium, Magnesium, Potassium, and Sodium in Wines from Mexico. <i>American Journal of Enology and Viticulture</i> , 2013, 64, 280-284.	1.7	10
41	Distribution of Penaeid Shrimp Larvae and Postlarvae in the Upper Gulf of California. <i>Crustaceana</i> , 2010, 83, 809-819.	0.3	9
42	Calibration of portable X-ray fluorescence equipment for the geochemical analysis of carbonate matrices. <i>Sedimentary Geology</i> , 2019, 391, 105517.	2.1	9
43	Atmospheric iron fluxes in the northern region of the Gulf of California: Implications for primary production and potential Fe limitation. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 129, 69-79.	1.4	8
44	Degree of trace metal pyritization in sediments from the Pacific coast of Baja California, Mexico. <i>Ciencias Marinas</i> , 2001, 27, 289-309.	0.4	8
45	Trace Metals in Sediments and <i>Zostera marina</i> of San Ignacio and Ojo de Liebre Lagoons in the Central Pacific Coast of Baja California, Mexico. <i>Archives of Environmental Contamination and Toxicology</i> , 2008, 55, 218-228.	4.1	7
46	Degrees of pyritization in the Gulf of Mexico in sediments influenced by the Coatzacoalcos and the Grijava-Usumacinta rivers. <i>Ciencias Marinas</i> , 2002, 28, 369-379.	0.4	7
47	The Use of Urban Wastewater for the Colorado River Delta Restoration. <i>Procedia Environmental Sciences</i> , 2013, 18, 829-835.	1.4	6
48	Trace metals partitioning among different sedimentary mineral phases and the deposit-feeding polychaete <i>Armandia brevis</i> . <i>Science of the Total Environment</i> , 2016, 543, 248-266.	8.0	6
49	Iron Sulfide and Carbonate Mineral Diagenesis in Baffin Bay, Texas. <i>Journal of Sedimentary Research</i> , 1992, Vol. 62, .	1.6	6
50	Phosphorus Speciation and Sedimentary Fluxes in Hypersaline Sediments of the Guerrero Negro Salt Evaporation Area, Baja California Sur, Mexico. <i>Estuaries and Coasts</i> , 2011, 34, 514-528.	2.2	5
51	A novel method to measure calcium carbonate with portable X-ray fluorescence instrumentation and its application to Gulf of Mexico surficial sediments. <i>Sedimentary Geology</i> , 2020, 406, 105724.	2.1	5
52	Vanadium and Cadmium in Shallow Marine Sediments: Spatial and Temporal Behavior in the Tamaulipas Continental Platform, Gulf of Mexico, Mexico. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 108, 30-36.	2.7	5
53	Influence of Light on the Adsorption of Copper from Seawater onto Goethite and Birnessite. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2006, 77, 60-66.	2.7	4
54	Spatial and Temporal Distribution of Trace Metals in Shallow Marine Sediments of the Yucatan Shelf, Gulf of Mexico. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 108, 3-8.	2.7	4

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55	Experimental and modeling of competitive biosorption of benzene, toluene, ethylbenzene, xylenes, and naphthalene (BTEXN) in a packed-bed column with a macroalgae-based composite: Effect of dissolved organic matter and flow rate on breakthrough curves. <i>Journal of Water Process Engineering</i> , 2021, 40, 101874.	5.6	4
56	Vertical distribution of dissolved iron, copper, and cadmium in Ballenas Channel, Gulf of California. <i>Ciencias Marinas</i> , 2011, 37, 457-469.	0.4	4
57	Concentration of dissolved iron in the oxygen minimum zone off San Esteban sill, Gulf of California. <i>Ciencias Marinas</i> , 2013, 39, 231-237.	0.4	3
58	New Methodology for Extraction of Total Metals from Macroalgae and Its Application to Selected Samples Collected in Pristine Zones from Baja California, Mexico. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2003, 70, 809-816.	2.7	2
59	Non-conservative behavior of dissolved molybdenum in hypersaline waters of the Guerrero Negro saltern, Mexico. <i>Applied Geochemistry</i> , 2020, 115, 104565.	3.0	2
60	The carbonate system in coastal waters off the northern region of the Baja California Peninsula under La Niña conditions. <i>Ciencias Marinas</i> , 2018, 44, .	0.4	1
61	Sediment trace metal levels in the Ojo de Liebre Lagoonal Complex (Baja California, Mexico), a marine wildlife protected area. <i>Marine Pollution Bulletin</i> , 2021, 165, 112097.	5.0	0
62	Phosphate balance and spatial variability on the continental shelf off the western US-Mexico border region. <i>Ciencias Marinas</i> , 2007, 33, 229-245.	0.4	0