Wilson Machado

List of Publications by Citations

87 papers	1,564 citations	22 h-index	36 g-index
102 ext. papers	1,829 ext. citations	3.4 avg, IF	4.48 L-index

#	Paper	IF	Citations
87	Mercury, zinc, and copper accumulation in mangrove sediments surrounding a large landfill in southeast Brazil. *Environmental Pollution*, **2002**, 120, 455-61	9.3	100
86	Elevated rates of organic carbon, nitrogen, and phosphorus accumulation in a highly impacted mangrove wetland. *Geophysical Research Letters*, **2014**, 41, 2475-2480	4.9	88
85	Environmental changes in Sepetiba Bay, SE Brazil. *Regional Environmental Change*, **2004**, 4, 17-27	4.3	86
84	Trace metal retention in mangrove ecosystems in Guanabara Bay, SE Brazil. *Marine Pollution Bulletin*, **2002**, 44, 1277-80	6.7	74
83	Trace metals in mangrove seedlings: role of iron plaque formation. *Wetlands Ecology and Management*, **2005**, 13, 199-206	2.1	64
82	Tracing of anthropogenic zinc sources in coastal environments using stable isotope composition. *Chemical Geology*, **2017**, 449, 226-235	4.2	58
81	An environmental overview of Guanabara Bay, Rio de Janeiro. *Regional Studies in Marine Science*, **2016**, 8, 319-330	1.5	52
80	Reactive sulfides relationship with metals in sediments from an eutrophicated estuary in Southeast Brazil. *Marine Pollution Bulletin*, **2004**, 49, 89-92	6.7	50
79	Mercury deposition through litterfall in an Atlantic forest at Ilha Grande, Southeast Brazil. *Chemosphere*, **2006**, 65, 2477-84	8.4	48
78	Changes in organic carbon accumulation driven by mangrove expansion and deforestation in a New Zealand estuary. *Estuarine, Coastal and Shelf Science*, **2017**, 192, 108-116	2.9	43
77	Mercury contents in aquatic macrophytes from two reservoirs in the Paraˆ Bba do Sul: Guandˆ "river system, SE Brazil. *Brazilian Journal of Biology*, **2006**, 66, 101-7	1.5	43
76	Eutrophication history of Guanabara Bay (SE Brazil) recorded by phosphorus flux to sediments from a degraded mangrove area. *Marine Pollution Bulletin*, **2009**, 58, 1750-4	6.7	42
75	Sedimentary geochemical record of historical anthropogenic activities affecting Guanabara Bay (Brazil) environmental quality. *Environmental Earth Sciences*, **2012**, 65, 1661-1669	2.9	41
74	Variabilidade espacial e sazonal da concentraˆ BB de elementos-traˆ B em sedimentos do sistema estuarino de Santos-Cubatˆ B (SP). *Quimica Nova*, **2006**, 29, 256-263	1.6	41
73	Geochemistry of acid mine drainage from a coal mining area and processes controlling metal attenuation in stream waters, southern Brazil. *Anais Da Academia Brasileira De Ciencias*, **2014**, 86, 539-554	1.4	39
72	Relation of Reactive Sulfides with Organic Carbon, Iron, and Manganese in Anaerobic Mangrove Sediments: Implications for Sediment Suitability to Trap Trace Metals. *Journal of Coastal Research*, **2008**, 4, 25-32	0.6	32
71	Geochemical fractionation of metals and semimetals in surface sediments from tropical impacted estuary (Guanabara Bay, Brazil). *Environmental Earth Sciences*, **2015**, 74, 1363-1378	2.9	31

70	Multi-elemental contamination and historic record in sediments from the Santos-Cubatˆ ß Estuarine System, Brazil. *Journal of the Brazilian Chemical Society*, **2008**, 19, 1490-1500	1.5	31
69	Mercury Accumulation in Sediments of a Mangrove Ecosystem in SE Brazil. *Water, Air, and Soil Pollution*, **2003**, 145, 67-77	2.6	31
68	Mercury dilution by autochthonous organic matter in a fertilized mangrove wetland. *Environmental Pollution*, **2016**, 213, 30-35	9.3	26
67	Trace metal pyritization variability in response to mangrove soil aerobic and anaerobic oxidation processes. *Marine Pollution Bulletin*, **2014**, 79, 365-70	6.7	24
66	Contaminant Metal Behaviour During Re-suspension of Sulphidic Estuarine Sediments. *Water, Air, and Soil Pollution*, **2007**, 181, 193-200	2.6	24
65	Sediment quality in a metal-contaminated tropical bay assessed with a multiple lines of evidence approach. *Environmental Pollution*, **2017**, 228, 265-276	9.3	21
64	Mercury accumulation in sediments along an eutrophication gradient in Guanabara Bay, southeast Brazil. *Journal of the Brazilian Chemical Society*, **2008**, 19, 569-575	1.5	21
63	Assessing man-induced environmental changes in the Sepetiba Bay (Southeastern Brazil) with geochemical and satellite data. *Comptes Rendus - Geoscience*, **2017**, 349, 290-298	1.4	20
62	Rare Earth Element and Radionuclide Distribution in Surface Sediments Along an Estuarine System Affected by Fertilizer Industry Contamination. *Water, Air, and Soil Pollution*, **2013**, 224, 1	2.6	19
61	Relation of acid-volatile sulfides (AVS) with metals in sediments from eutrophicated estuaries: Is it limited by metal-to-AVS ratios?. *Journal of Soils and Sediments*, **2010**, 10, 1606-1610	3.4	19
60	Carbon accumulation and storage capacity in mangrove sediments three decades after deforestation within a eutrophic bay. *Marine Pollution Bulletin*, **2018**, 126, 275-280	6.7	19
59	A critical examination of the possible application of zinc stable isotope ratios in bivalve mollusks and suspended particulate matter to trace zinc pollution in a tropical estuary. *Environmental Pollution*, **2017**, 226, 41-47	9.3	18
58	Sediment metal enrichment and ecological risk assessment of ten ports and estuaries in the World Harbours Project. *Marine Pollution Bulletin*, **2020**, 155, 111129	6.7	18
57	Carbon and nutrient accumulation in tropical mangrove creeks, Amazon region. *Marine Geology*, **2020**, 429, 106317	3.3	18
56	Using a tiered approach based on ecotoxicological techniques to assess the ecological risks of contamination in a subtropical estuarine protected area. *Science of the Total Environment*, **2016**, 544, 564-73	10.2	17
55	Evaluation of Cu potential bioavailability changes upon coastal sediment resuspension: an example on how to improve the assessment of sediment dredging environmental risks. *Environmental Science and Pollution Research*, **2011**, 18, 1033-6	5.1	17
54	Mercury, zinc, manganese, and iron accumulation in leachate pond sediments from a refuse tip in Southeastern Brazil. *Microchemical Journal*, **2006**, 82, 196-200	4.8	17
53	Early diagenesis of sulfur in a tropical upwelling system, Cabo Frio, southeastern Brazil. *Geology*, **2012**, 40, 879-882	5	16

52	Zinc isotopes as tracers of anthropogenic sources and biogeochemical processes in contaminated mangroves. *Applied Geochemistry*, **2018**, 95, 25-32	3.5	16
51	Shrimp farming influence on carbon and nutrient accumulation within Peruvian mangroves sediments. *Estuarine, Coastal and Shelf Science*, **2020**, 243, 106879	2.9	14
50	Selenium, Chromium and Cobalt Diffusion into Mangrove Sediments: Radiotracer Experiment Evidence of Coupled Effects of Bioturbation and Rhizosphere. *Water, Air, and Soil Pollution*, **2012**, 223, 3887-3892	2.6	13
49	Coupled anthropogenic anomalies of radionuclides and major elements in estuarine sediments. *Journal of Environmental Radioactivity*, **2008**, 99, 1329-34	2.4	13
48	Online Chemistry Education Challenges for Rio de Janeiro Students during the COVID-19 Pandemic. *Journal of Chemical Education*, **2020**, 97, 3396-3399	2.4	12
47	Changes in Cd and Zn bioavailability upon an experimental resuspension of highly contaminated coastal sediments from a tropical estuary. *Sustainable Water Resources Management*, **2015**, 1, 335-342	1.9	11
46	Nutrient regeneration susceptibility under contrasting sedimentary conditions from the Rio de Janeiro coast, Brazil. *Marine Pollution Bulletin*, **2016**, 108, 297-302	6.7	11
45	Integrating multiple lines of evidence of sediment quality in a tropical bay (Guanabara Bay, Brazil). *Marine Pollution Bulletin*, **2019**, 146, 925-934	6.7	10
44	Removal of Zinc from Tidal Water by Sediments of a Mangrove Ecosystem: A Radiotracer Study. *Water, Air, and Soil Pollution*, **2008**, 192, 77-83	2.6	10
43	Distribuiˆ o espacial de ferro, cobre e chumbo em sedimentos de manguezal em um gradiente de degradaˆ o na Baˆ a de Guanabara (Estado do Rio de Janeiro). *Quimica Nova*, **2007**, 30, 66-69	1.6	10
42	Carbon and nutrient accumulation in mangrove sediments affected by multiple environmental changes. *Journal of Soils and Sediments*, **2020**, 20, 2504-2509	3.4	9
41	Ion Exchange Chromatography and Mass Bias Correction for Accurate and Precise Zn Isotope Ratio Measurements in Environmental Reference Materials by MC-ICP-MS. *Journal of the Brazilian Chemical Society*, **2016**,	1.5	9
40	Evaluation of the bioaccumulation kinetics of toxic metals in fish (A. brasiliensis) and its application on monitoring of coastal ecosystems. *Marine Pollution Bulletin*, **2020**, 151, 110830	6.7	7
39	Radiotracer estimates of benthic activity effects on trace metal diffusion into mangrove sediments. *Marine Environmental Research*, **2013**, 83, 96-100	3.3	7
38	Biogeochemical factors controlling arsenic distribution in a densely populated tropical estuary (Guanabara Bay, RJ, Brazil). *Environmental Earth Sciences*, **2017**, 76, 1	2.9	7
37	Changes in Cd and Zn distribution in sediments after closure of an electroplating industry, Sepetiba bay, Brazil. *Marine Pollution Bulletin*, **2020**, 161, 111758	6.7	7
36	Behavior of metallurgical zinc contamination in coastal environments: A survey of Zn from electroplating wastes and partitioning in sediments. *Science of the Total Environment*, **2020**, 743, 140610	10.2	7
35	Nutrient behavior in a highly-eutrophicated tropical estuarine system. *Acta Limnologica Brasiliensia*, **2016**, 28,	0.9	7

34	Spatial variability and seasonal toxicity of dredged sediments from Guanabara Bay (Rio de Janeiro, Brazil): acute effects on earthworms. *Environmental Science and Pollution Research*, **2018**, 25, 34496-34509	5.1	7
33	Geochemistry of intertidal sediment pore waters from the industrialized Santos-Cubatˆ ão Estuarine System, SE Brazil. *Anais Da Academia Brasileira De Ciencias*, **2012**, 84, 427-42	1.4	6
32	Cesium, manganese and cobalt water sediment transfer kinetics and diffusion into mangrove sediments inferred by radiotracer experiments. *Journal of Radioanalytical and Nuclear Chemistry*, **2012**, 292, 349-353	1.5	5
31	Trace metal bioavailability in sediments from a reference site, Ribeira Bay, Brazil. *Marine Pollution Bulletin*, **2016**, 106, 395-9	6.7	4
30	Increase in the bioavailability of trace metals after sediment resuspension. *SN Applied Sciences*, **2019**, 1, 1	1.8	4
29	Anthropogenic source assessment of 226Ra and 210Pb in a sediment core from the Cubatˆ ão River estuary (SE Brazil). *Journal of Radioanalytical and Nuclear Chemistry*, **2011**, 287, 729-732	1.5	4
28	Anthropogenic and environmental influences on nutrient accumulation in mangrove sediments. *Marine Pollution Bulletin*, **2021**, 165, 112174	6.7	4
27	Iron biogeochemistry in Holocene palaeo and actual salt marshes in coastal areas of the Pampean Plain, Argentina. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	4
26	Dredging impact on trace metal behavior in a polluted estuary: a discussion about sampling design. *Brazilian Journal of Oceanography*, **2019**, 67,	1.8	3
25	Kinetics of trace metal removal from tidal water by mangrove sediments under different redox conditions. *Radiation Physics and Chemistry*, **2014**, 95, 336-338	2.5	3
24	BALANˆ CO DO MERCˆ URIO NUMA LAGOA COSTEIRA HIPERTRˆ OFICA (LAGOA RODRIGO DE FREITAS, RIO DE JANEIRO). *Oecologia Australis*, **2012**, 16, 365-390	1.6	3
23	Removal efficiency of 75Se, 51Cr and 60Co from tidal water by mangrove sediments from Sepetiba Bay (SE Brazil). *Journal of Radioanalytical and Nuclear Chemistry*, **2014**, 299, 357-361	1.5	2
22	Metal Bioavailability in Contaminated Estuarine Sediments from a Highly-Impacted Tropical Bay. *Revista Virtual De Quimica*, **2017**, 9, 2007-2016	1.3	2
21	The new Meghalayan Age: What does it Imply for the Anthropocene Age?. *Revista Virtual De Quimica*, **2018**, 10, 1648-1658	1.3	2
20	The COVID-19 Pandemic: Living in the Anthropocene. *Revista Virtual De Quimica*, **2020**, 12, 901-912	1.3	2
19	Hypersaline tidal flats as important blue carbon systems: a case study from three ecosystems. *Biogeosciences*, **2021**, 18, 2527-2538	4.6	2
18	Electrochemical characterization of mangrove sediments: A proposal of new proxies for organic matter oxidation. *Applied Geochemistry*, **2019**, 101, 42-49	3.5	2
17	Trace metal dynamics in an industrialized Brazilian river: A combined application of Zn isotopes, geochemical partitioning, and multivariate statistics. *Journal of Environmental Sciences*, **2021**, 101, 313-325	6.4	2

16	Sedimentary trace element sinks in a tropical upwelling system. *Journal of Soils and Sediments*, **2018**, 18, 287-296	3.4	2
15	LEAD SOURCE ASSESSMENT BY ISOTOPIC AND ELEMENTARY COMPOSITION IN THE TRANSITION FROM PRISTINE TO POLLUTED CONDITION OF COASTAL SEDIMENTS / AVALIAˆ □□O DAS FONTES DE PB PELAS COMPOSIˆ □□ES ISOTˆ PICAS E ELEMENTARES DE SEDIMENTOS COSTEIROS NA TRANSIˆ □□O DE CONDIˆ □□ES NATURAIS PARA POLUˆ DAS. *Journal of Sedimentary Environments*	1.4	2
14	Evaluation of contaminants spreading from sludge piles, applying geochemical fractionation and attenuation of concentrations model in a tropical reservoir. *Environmental Monitoring and Assessment*, **2019**, 191, 426	3.1	1
13	Metal-Associated Biomarker Responses in Crabs from a Marine Protected Area in Southeastern Brazil. *Archives of Environmental Contamination and Toxicology*, **2020**, 78, 463-477	3.2	1
12	Influence of biological activity on 65Zn and 109Cd removal from tidal water by chronically-polluted mangrove sediments. *Journal of Radioanalytical and Nuclear Chemistry*, **2018**, 316, 429-434	1.5	1
11	Seasonal changes in metal and nutrient fluxes across the sediment-water interface in tropical mangrove creeks in the Amazon region. *Applied Geochemistry*, **2022**, 138, 105217	3.5	1
10	Mangrove sediments as long-term mercury sinks: Evidence from millennial to decadal time scales. *Marine Pollution Bulletin*, **2021**, 173, 113031	6.7	1
9	METAL SORPTION BY SEDIMENTS FROM A MANGROVE REFORESTATION AREA IN GUANABARA BAY (SE BRAZIL) REVEALED BY USING RADIOTRACERS. *Journal of Sedimentary Environments*, **2016**, 1,	1.4	1
8	Arsenic contamination in widely consumed Caribbean sharpnose sharks in southeastern Brazil: Baseline data and concerns regarding fisheries resources. *Marine Pollution Bulletin*, **2021**, 172, 112905	6.7	1
7	Metal Bioaccumulation by the Neotropical Clam Anomalocardia flexuosa to Estimate the Quality of Estuarine Sediments. *Bulletin of Environmental Contamination and Toxicology*, **2021**, 107, 106-113	2.7	0
6	ANTHROPOGENIC FACTORS DRIVING PHOSPHORUS CONTENTS IN SALTO GRANDE RESERVOIR SEDIMENTS, SˆO PAULO STATE (SE BRAZIL) / INFLUˆ NCIA ANTROPOGˆ NICA NAS CONCENTRAˆ □□ES DE FˆSFORO DOS SEDIMENTOS DO RESERVATˆ RIO DE SALTO GRANDE, ESTADO DE SˆO PAULO (SE BRASIL). *Journal of Sedimentary Environments*, **2018**, 3, 166-175	1.4	0
5	Mercury distribution in water masses of the South Atlantic Ocean (24°S to 20°S), Brazilian Exclusive Economic Zone.. *Marine Pollution Bulletin*, **2022**, 176, 113425	6.7	0
4	Removal of Zn and Cd from Overlying Water by Mangrove Sediments: Testing the Effects of Sediment Resuspension/Redeposition Events. *Water, Air, and Soil Pollution*, **2020**, 231, 1	2.6	
3	Radiotracers as a Tool to Elucidate Trace Element Behaviour in the Water-Sediment Interface **2015**, 101-113		
2	O programa cientˆ fico do Antropoceno. *Estudos Avancados*, **2021**, 35, 289-294	0.6	
1	Organic Matter Redox State Driven by Specific Sources in Mangrove Sediments: A Case Study from Peruvian Ecosystems. *Journal of Marine Science and Engineering*, **2021**, 9, 1438	2.4	