

# Wilson Machado

## List of Publications by Year in Descending Order

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

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	Seasonal changes in metal and nutrient fluxes across the sediment-water interface in tropical mangrove creeks in the Amazon region. <i>Applied Geochemistry</i> , <b>2022</b> , 138, 105217	3.5	1
86	Mercury distribution in water masses of the South Atlantic Ocean (24°S to 20°S), Brazilian Exclusive Economic Zone.. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 176, 113425	6.7	0
85	Mangrove sediments as long-term mercury sinks: Evidence from millennial to decadal time scales. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 173, 113031	6.7	1
84	O programa científico do Antropoceno. <i>Estudos Avancados</i> , <b>2021</b> , 35, 289-294	0.6	
83	Anthropogenic and environmental influences on nutrient accumulation in mangrove sediments. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 165, 112174	6.7	4
82	Hypersaline tidal flats as important Blue carbon systems: a case study from three ecosystems. <i>Biogeosciences</i> , <b>2021</b> , 18, 2527-2538	4.6	2
81	Trace metal dynamics in an industrialized Brazilian river: A combined application of Zn isotopes, geochemical partitioning, and multivariate statistics. <i>Journal of Environmental Sciences</i> , <b>2021</b> , 101, 313-325	6.4	2
80	Metal Bioaccumulation by the Neotropical Clam <i>Anomalocardia flexuosa</i> to Estimate the Quality of Estuarine Sediments. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2021</b> , 107, 106-113	2.7	0
79	Arsenic contamination in widely consumed Caribbean sharpnose sharks in southeastern Brazil: Baseline data and concerns regarding fisheries resources. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 172, 112905	6.7	1
78	Organic Matter Redox State Driven by Specific Sources in Mangrove Sediments: A Case Study from Peruvian Ecosystems. <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 1438	2.4	
77	Shrimp farming influence on carbon and nutrient accumulation within Peruvian mangroves sediments. <i>Estuarine, Coastal and Shelf Science</i> , <b>2020</b> , 243, 106879	2.9	14
76	Metal-Associated Biomarker Responses in Crabs from a Marine Protected Area in Southeastern Brazil. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2020</b> , 78, 463-477	3.2	1
75	Evaluation of the bioaccumulation kinetics of toxic metals in fish ( <i>A. brasiliensis</i> ) and its application on monitoring of coastal ecosystems. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 151, 110830	6.7	7
74	Removal of Zn and Cd from Overlying Water by Mangrove Sediments: Testing the Effects of Sediment Resuspension/Redeposition Events. <i>Water, Air, and Soil Pollution</i> , <b>2020</b> , 231, 1	2.6	
73	Carbon and nutrient accumulation in mangrove sediments affected by multiple environmental changes. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 2504-2509	3.4	9
72	The COVID-19 Pandemic: Living in the Anthropocene. <i>Revista Virtual De Quimica</i> , <b>2020</b> , 12, 901-912	1.3	2
71	Sediment metal enrichment and ecological risk assessment of ten ports and estuaries in the World Harbours Project. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 155, 111129	6.7	18

70	Changes in Cd and Zn distribution in sediments after closure of an electroplating industry, Sepetiba bay, Brazil. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 161, 111758	6.7	7
69	Carbon and nutrient accumulation in tropical mangrove creeks, Amazon region. <i>Marine Geology</i> , <b>2020</b> , 429, 106317	3.3	18
68	Behavior of metallurgical zinc contamination in coastal environments: A survey of Zn from electroplating wastes and partitioning in sediments. <i>Science of the Total Environment</i> , <b>2020</b> , 743, 140610	10.2	7
67	Online Chemistry Education Challenges for Rio de Janeiro Students during the COVID-19 Pandemic. <i>Journal of Chemical Education</i> , <b>2020</b> , 97, 3396-3399	2.4	12
66	Dredging impact on trace metal behavior in a polluted estuary: a discussion about sampling design. <i>Brazilian Journal of Oceanography</i> , <b>2019</b> , 67,	1.8	3
65	Evaluation of contaminants spreading from sludge piles, applying geochemical fractionation and attenuation of concentrations model in a tropical reservoir. <i>Environmental Monitoring and Assessment</i> , <b>2019</b> , 191, 426	3.1	1
64	Integrating multiple lines of evidence of sediment quality in a tropical bay (Guanabara Bay, Brazil). <i>Marine Pollution Bulletin</i> , <b>2019</b> , 146, 925-934	6.7	10
63	Increase in the bioavailability of trace metals after sediment resuspension. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	4
62	Electrochemical characterization of mangrove sediments: A proposal of new proxies for organic matter oxidation. <i>Applied Geochemistry</i> , <b>2019</b> , 101, 42-49	3.5	2
61	Influence of biological activity on 65Zn and 109Cd removal from tidal water by chronically-polluted mangrove sediments. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2018</b> , 316, 429-434	1.5	1
60	The new Meghalayan Age: What does it imply for the Anthropocene Age?. <i>Revista Virtual De Quimica</i> , <b>2018</b> , 10, 1648-1658	1.3	2
59	Carbon accumulation and storage capacity in mangrove sediments three decades after deforestation within a eutrophic bay. <i>Marine Pollution Bulletin</i> , <b>2018</b> , 126, 275-280	6.7	19
58	Sedimentary trace element sinks in a tropical upwelling system. <i>Journal of Soils and Sediments</i> , <b>2018</b> , 18, 287-296	3.4	2
57	LEAD SOURCE ASSESSMENT BY ISOTOPIC AND ELEMENTARY COMPOSITION IN THE TRANSITION FROM PRISTINE TO POLLUTED CONDITION OF COASTAL SEDIMENTS / AVALIAÇÃO DAS FONTES DE Pb PELAS COMPOSIÇÕES ISOTÓPICAS E ELEMENTARES DE SEDIMENTOS COSTEIROS NA	1.4	2
56	ANTHROPOGENIC FACTORS DRIVING PHOSPHORUS CONTENTS IN SALTO GRANDE RESERVOIR SEDIMENTS, SÃO PAULO STATE (SE BRAZIL) / INFLUÊNCIA ANTROPOGÊNICA NAS CONCENTRAÇÕES DE FÓSFORO DOS SEDIMENTOS DO RESERVATÓRIO DE SALTO GRANDE, ESTADO DE SÃO PAULO (SE BRASIL). <i>Journal of Sedimentary Environments</i> , <b>2018</b> , 3, 166-175	1.4	0
55	Spatial variability and seasonal toxicity of dredged sediments from Guanabara Bay (Rio de Janeiro, Brazil): acute effects on earthworms. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 34496-34509	5.1	7
54	Zinc isotopes as tracers of anthropogenic sources and biogeochemical processes in contaminated mangroves. <i>Applied Geochemistry</i> , <b>2018</b> , 95, 25-32	3.5	16
53	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. <i>Environmental Pollution</i> , <b>2017</b> , 226, 41-47	9.3	18

52	Changes in organic carbon accumulation driven by mangrove expansion and deforestation in a New Zealand estuary. <i>Estuarine, Coastal and Shelf Science</i> , <b>2017</b> , 192, 108-116	2.9	43
51	Sediment quality in a metal-contaminated tropical bay assessed with a multiple lines of evidence approach. <i>Environmental Pollution</i> , <b>2017</b> , 228, 265-276	9.3	21
50	Tracing of anthropogenic zinc sources in coastal environments using stable isotope composition. <i>Chemical Geology</i> , <b>2017</b> , 449, 226-235	4.2	58
49	Biogeochemical factors controlling arsenic distribution in a densely populated tropical estuary (Guanabara Bay, RJ, Brazil). <i>Environmental Earth Sciences</i> , <b>2017</b> , 76, 1	2.9	7
48	Assessing man-induced environmental changes in the Sepetiba Bay (Southeastern Brazil) with geochemical and satellite data. <i>Comptes Rendus - Geoscience</i> , <b>2017</b> , 349, 290-298	1.4	20
47	Metal Bioavailability in Contaminated Estuarine Sediments from a Highly-Impacted Tropical Bay. <i>Revista Virtual De Quimica</i> , <b>2017</b> , 9, 2007-2016	1.3	2
46	Using a tiered approach based on ecotoxicological techniques to assess the ecological risks of contamination in a subtropical estuarine protected area. <i>Science of the Total Environment</i> , <b>2016</b> , 544, 564-73	10.2	17
45	Trace metal bioavailability in sediments from a reference site, Ribeira Bay, Brazil. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 106, 395-9	6.7	4
44	An environmental overview of Guanabara Bay, Rio de Janeiro. <i>Regional Studies in Marine Science</i> , <b>2016</b> , 8, 319-330	1.5	52
43	Mercury dilution by autochthonous organic matter in a fertilized mangrove wetland. <i>Environmental Pollution</i> , <b>2016</b> , 213, 30-35	9.3	26
42	METAL SORPTION BY SEDIMENTS FROM A MANGROVE REFORESTATION AREA IN GUANABARA BAY (SE BRAZIL) REVEALED BY USING RADIOTRACERS. <i>Journal of Sedimentary Environments</i> , <b>2016</b> , 1,	1.4	1
41	Ion Exchange Chromatography and Mass Bias Correction for Accurate and Precise Zn Isotope Ratio Measurements in Environmental Reference Materials by MC-ICP-MS. <i>Journal of the Brazilian Chemical Society</i> , <b>2016</b> ,	1.5	9
40	Nutrient behavior in a highly-eutrophicated tropical estuarine system. <i>Acta Limnologica Brasiliensia</i> , <b>2016</b> , 28,	0.9	7
39	Nutrient regeneration susceptibility under contrasting sedimentary conditions from the Rio de Janeiro coast, Brazil. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 108, 297-302	6.7	11
38	Iron biogeochemistry in Holocene palaeo and actual salt marshes in coastal areas of the Pampean Plain, Argentina. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	4
37	Geochemical fractionation of metals and semimetals in surface sediments from tropical impacted estuary (Guanabara Bay, Brazil). <i>Environmental Earth Sciences</i> , <b>2015</b> , 74, 1363-1378	2.9	31
36	Changes in Cd and Zn bioavailability upon an experimental resuspension of highly contaminated coastal sediments from a tropical estuary. <i>Sustainable Water Resources Management</i> , <b>2015</b> , 1, 335-342	1.9	11
35	Radiotracers as a Tool to Elucidate Trace Element Behaviour in the Water-Bediment Interface <b>2015</b> , 101-113		

34	Elevated rates of organic carbon, nitrogen, and phosphorus accumulation in a highly impacted mangrove wetland. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 2475-2480	4.9	88
33	Kinetics of trace metal removal from tidal water by mangrove sediments under different redox conditions. <i>Radiation Physics and Chemistry</i> , <b>2014</b> , 95, 336-338	2.5	3
32	Geochemistry of acid mine drainage from a coal mining area and processes controlling metal attenuation in stream waters, southern Brazil. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2014</b> , 86, 539-554	1.4	39
31	Trace metal pyritization variability in response to mangrove soil aerobic and anaerobic oxidation processes. <i>Marine Pollution Bulletin</i> , <b>2014</b> , 79, 365-70	6.7	24
30	Removal efficiency of <sup>75</sup> Se, <sup>51</sup> Cr and <sup>60</sup> Co from tidal water by mangrove sediments from Sepetiba Bay (SE Brazil). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2014</b> , 299, 357-361	1.5	2
29	Radiotracer estimates of benthic activity effects on trace metal diffusion into mangrove sediments. <i>Marine Environmental Research</i> , <b>2013</b> , 83, 96-100	3.3	7
28	Rare Earth Element and Radionuclide Distribution in Surface Sediments Along an Estuarine System Affected by Fertilizer Industry Contamination. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1	2.6	19
27	Sedimentary geochemical record of historical anthropogenic activities affecting Guanabara Bay (Brazil) environmental quality. <i>Environmental Earth Sciences</i> , <b>2012</b> , 65, 1661-1669	2.9	41
26	Selenium, Chromium and Cobalt Diffusion into Mangrove Sediments: Radiotracer Experiment Evidence of Coupled Effects of Bioturbation and Rhizosphere. <i>Water, Air, and Soil Pollution</i> , <b>2012</b> , 223, 3887-3892	2.6	13
25	Early diagenesis of sulfur in a tropical upwelling system, Cabo Frio, southeastern Brazil. <i>Geology</i> , <b>2012</b> , 40, 879-882	5	16
24	Geochemistry of intertidal sediment pore waters from the industrialized Santos-Cubatã Estuarine System, SE Brazil. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2012</b> , 84, 427-42	1.4	6
23	Cesium, manganese and cobalt water-sediment transfer kinetics and diffusion into mangrove sediments inferred by radiotracer experiments. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2012</b> , 292, 349-353	1.5	5
22	BALANÇO DO MERCÚRIO NUMA LAGOA COSTEIRA HIPERTRÓFICA (LAGOA RODRIGO DE FREITAS, RIO DE JANEIRO). <i>Oecologia Australis</i> , <b>2012</b> , 16, 365-390	1.6	3
21	Anthropogenic source assessment of <sup>226</sup> Ra and <sup>210</sup> Pb in a sediment core from the Cubatã River estuary (SE Brazil). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2011</b> , 287, 729-732	1.5	4
20	Evaluation of Cu potential bioavailability changes upon coastal sediment resuspension: an example on how to improve the assessment of sediment dredging environmental risks. <i>Environmental Science and Pollution Research</i> , <b>2011</b> , 18, 1033-6	5.1	17
19	Relation of acid-volatile sulfides (AVS) with metals in sediments from eutrophicated estuaries: Is it limited by metal-to-AVS ratios?. <i>Journal of Soils and Sediments</i> , <b>2010</b> , 10, 1606-1610	3.4	19
18	Eutrophication history of Guanabara Bay (SE Brazil) recorded by phosphorus flux to sediments from a degraded mangrove area. <i>Marine Pollution Bulletin</i> , <b>2009</b> , 58, 1750-4	6.7	42
17	Relation of Reactive Sulfides with Organic Carbon, Iron, and Manganese in Anaerobic Mangrove Sediments: Implications for Sediment Suitability to Trap Trace Metals. <i>Journal of Coastal Research</i> , <b>2008</b> , 4, 25-32	0.6	32

16	Multi-elemental contamination and historic record in sediments from the Santos-Cubatã Estuarine System, Brazil. <i>Journal of the Brazilian Chemical Society</i> , <b>2008</b> , 19, 1490-1500	1.5	31
15	Mercury accumulation in sediments along an eutrophication gradient in Guanabara Bay, southeast Brazil. <i>Journal of the Brazilian Chemical Society</i> , <b>2008</b> , 19, 569-575	1.5	21
14	Coupled anthropogenic anomalies of radionuclides and major elements in estuarine sediments. <i>Journal of Environmental Radioactivity</i> , <b>2008</b> , 99, 1329-34	2.4	13
13	Removal of Zinc from Tidal Water by Sediments of a Mangrove Ecosystem: A Radiotracer Study. <i>Water, Air, and Soil Pollution</i> , <b>2008</b> , 192, 77-83	2.6	10
12	Contaminant Metal Behaviour During Re-suspension of Sulphidic Estuarine Sediments. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 181, 193-200	2.6	24
11	Distribui�o espacial de ferro, cobre e chumbo em sedimentos de manguezal em um gradiente de degrada�o na Ba�ia de Guanabara (Estado do Rio de Janeiro). <i>Quimica Nova</i> , <b>2007</b> , 30, 66-69	1.6	10
10	Mercury deposition through litterfall in an Atlantic forest at Ilha Grande, Southeast Brazil. <i>Chemosphere</i> , <b>2006</b> , 65, 2477-84	8.4	48
9	Mercury contents in aquatic macrophytes from two reservoirs in the Para�ba do Sul: Guand� river system, SE Brazil. <i>Brazilian Journal of Biology</i> , <b>2006</b> , 66, 101-7	1.5	43
8	Variabilidade espacial e sazonal da concentra�o de elementos-tra�o em sedimentos do sistema estuarino de Santos-Cubat� (SP). <i>Quimica Nova</i> , <b>2006</b> , 29, 256-263	1.6	41
7	Mercury, zinc, manganese, and iron accumulation in leachate pond sediments from a refuse tip in Southeastern Brazil. <i>Microchemical Journal</i> , <b>2006</b> , 82, 196-200	4.8	17
6	Trace metals in mangrove seedlings: role of iron plaque formation. <i>Wetlands Ecology and Management</i> , <b>2005</b> , 13, 199-206	2.1	64
5	Reactive sulfides relationship with metals in sediments from an eutrophicated estuary in Southeast Brazil. <i>Marine Pollution Bulletin</i> , <b>2004</b> , 49, 89-92	6.7	50
4	Environmental changes in Sepetiba Bay, SE Brazil. <i>Regional Environmental Change</i> , <b>2004</b> , 4, 17-27	4.3	86
3	Mercury Accumulation in Sediments of a Mangrove Ecosystem in SE Brazil. <i>Water, Air, and Soil Pollution</i> , <b>2003</b> , 145, 67-77	2.6	31
2	Trace metal retention in mangrove ecosystems in Guanabara Bay, SE Brazil. <i>Marine Pollution Bulletin</i> , <b>2002</b> , 44, 1277-80	6.7	74
1	Mercury, zinc, and copper accumulation in mangrove sediments surrounding a large landfill in southeast Brazil. <i>Environmental Pollution</i> , <b>2002</b> , 120, 455-61	9.3	100