

# Wanderley Rodrigues Bastos

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

2,919  
citations

159358

30  
h-index

182168

51  
g-index

104  
all docs

104  
docs citations

104  
times ranked

3109  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mercury and methylmercury in fish and human hair from the Tapaj�s river basin, Brazil. <i>Science of the Total Environment</i> , 1995, 175, 141-150.	3.9	230
2	Large emissions from floodplain trees close the Amazon methane budget. <i>Nature</i> , 2017, 552, 230-234.	13.7	204
3	Mercury in the environment and riverside population in the Madeira River Basin, Amazon, Brazil. <i>Science of the Total Environment</i> , 2006, 368, 344-351.	3.9	125
4	Mercury concentrations in inland waters of gold-mining areas in Rond�nia, Brazil. <i>Science of the Total Environment</i> , 1989, 87-88, 233-240.	3.9	111
5	Stable carbon isotope discrimination and microbiology of methane formation in tropical anoxic lake sediments. <i>Biogeosciences</i> , 2011, 8, 795-814.	1.3	100
6	An assessment of Hg pollution in different goldmining areas, Amazon Brazil. <i>Science of the Total Environment</i> , 1995, 175, 127-140.	3.9	98
7	Mercury-Selenium Relationships in Liver of Guiana Dolphin: The Possible Role of Kupffer Cells in the Detoxification Process by Tiemannite Formation. <i>PLoS ONE</i> , 2012, 7, e42162.	1.1	92
8	Maternal mercury exposure and neuro-motor development in breastfed infants from Porto Velho (Amazon), Brazil. <i>International Journal of Hygiene and Environmental Health</i> , 2007, 210, 51-60.	2.1	75
9	Fish consumption by traditional subsistence villagers of the Rio Madeira (Amazon): Impact on hair mercury. <i>Annals of Human Biology</i> , 2010, 37, 629-642.	0.4	75
10	Reservoir Stratification Affects Methylmercury Levels in River Water, Plankton, and Fish Downstream from Balbina Hydroelectric Dam, Amazonas, Brazil. <i>Environmental Science &amp; Technology</i> , 2014, 48, 1032-1040.	4.6	74
11	Mercury in the Madeira River ecosystem, Rond�nia, Brazil. <i>Forest Ecology and Management</i> , 1991, 38, 239-245.	1.4	71
12	Mercury loss from soils following conversion from forest to pasture in Rond�nia, Western Amazon, Brazil. <i>Environmental Pollution</i> , 2005, 137, 179-186.	3.7	69
13	Total and methyl-mercury in hair and milk of mothers living in the city of Porto Velho and in villages along the Rio Madeira, Amazon, Brazil. <i>International Journal of Hygiene and Environmental Health</i> , 2013, 216, 682-689.	2.1	62
14	Mercury in fish of the Madeira river (temporal and spatial assessment), Brazilian Amazon. <i>Environmental Research</i> , 2015, 140, 191-197.	3.7	61
15	Mercury dispersal in water, sediments and aquatic biota of a gold mining tailing deposit drainage in pocone, Brazil. <i>Water, Air, and Soil Pollution</i> , 1991, 55, 283.	1.1	57
16	Mercury biomagnification and the trophic structure of the ichthyofauna from a remote lake in the Brazilian Amazon. <i>Environmental Research</i> , 2016, 151, 286-296.	3.7	57
17	Chemodiversity of dissolved organic matter in the Amazon Basin. <i>Biogeosciences</i> , 2016, 13, 4279-4290.	1.3	53
18	Annual flooding and fish-mercury bioaccumulation in the environmentally impacted Rio Madeira (Amazon). <i>Ecotoxicology</i> , 2007, 16, 341-346.	1.1	51

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19	DDT and its metabolites in breast milk from the Madeira River basin in the Amazon, Brazil. <i>Chemosphere</i> , 2008, 73, S246-S251.	4.2	51
20	Mercury distribution in sediment profiles from lakes of the high pantanal, Mato Grosso State, Brazil. <i>Biogeochemistry</i> , 1991, 14, 91-97.	1.7	49
21	Prenatal and Postnatal Mercury Exposure, Breastfeeding and Neurodevelopment During the First 5 Years. <i>Cognitive and Behavioral Neurology</i> , 2009, 22, 134-141.	0.5	49
22	Mercury and DDT exposure risk to fish-eating human populations in Amazon. <i>Environment International</i> , 2011, 37, 56-65.	4.8	46
23	Contrasting the microbiomes from forest rhizosphere and deeper bulk soil from an Amazon rainforest reserve. <i>Gene</i> , 2018, 642, 389-397.	1.0	46
24	Hair mercury in breast-fed infants exposed to thimerosal-preserved vaccines. <i>European Journal of Pediatrics</i> , 2007, 166, 935-941.	1.3	45
25	Assessing Polychlorinated Dibenzo- <i>p</i> -dioxins and Polychlorinated Dibenzofurans in Air across Latin American Countries Using Polyurethane Foam Disk Passive Air Samplers. <i>Environmental Science &amp; Technology</i> , 2015, 49, 3680-3686.	4.6	45
26	Use of epiphyte plants as biomonitors to map atmospheric mercury in a gold trade center city, Amazon, Brazil. <i>Science of the Total Environment</i> , 1998, 213, 57-64.	3.9	42
27	The impact of hydroelectric dams on mercury dynamics in South America: A review. <i>Chemosphere</i> , 2019, 219, 546-556.	4.2	38
28	The Influence of Changes in Lifestyle and Mercury Exposure in Riverine Populations of the Madeira River (Amazon Basin) near a Hydroelectric Project. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 2437-2455.	1.2	35
29	The influence of inundation and lake morphometry on the dynamics of mercury in the water and plankton in an Amazon floodplain lake. <i>Hydrobiologia</i> , 2017, 790, 35-48.	1.0	35
30	A description of mercury in fishes from the Madeira River Basin, Amazon, Brazil. <i>Acta Amazonica</i> , 2008, 38, 431-438.	0.3	34
31	Potential risks of natural mercury levels to wild predator fish in an Amazon reservoir. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 4815-4827.	1.3	31
32	Principal component analysis and discrimination of variables associated with pre- and post-natal exposure to mercury. <i>International Journal of Hygiene and Environmental Health</i> , 2008, 211, 606-614.	2.1	29
33	Poor psychometric scores of children living in isolated riverine and agrarian communities and fish- <i>“</i> methylmercury exposure. <i>NeuroToxicology</i> , 2008, 29, 1008-1015.	1.4	29
34	The impacts of land use changes in the mercury flux in the Madeira River, Western Amazon. <i>Anais Da Academia Brasileira De Ciencias</i> , 2012, 84, 69-78.	0.3	29
35	Changes in children hair-Hg concentrations during the first 5 years: Maternal, environmental and iatrogenic modifying factors. <i>Regulatory Toxicology and Pharmacology</i> , 2007, 49, 17-24.	1.3	28
36	Mercury degassing from forested and open field soils in Rondônia, Western Amazon, Brazil. <i>Chemosphere</i> , 2009, 77, 60-66.	4.2	28

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37	Maternal fish consumption in the nutrition transition of the Amazon Basin: Growth of exclusively breastfed infants during the first 5 years. <i>Annals of Human Biology</i> , 2008, 35, 363-377.	0.4	27
38	Sex-related mercury bioaccumulation in fish from the Madeira River, Amazon. <i>Environmental Research</i> , 2016, 144, 73-80.	3.7	27
39	Time of perinatal immunization, thimerosal exposure and neurodevelopment at 6 months in breastfed infants. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2007, 96, 864-868.	0.7	24
40	Total Hg and methylmercury dynamics in a river-floodplain system in the Western Amazon: Influence of seasonality, organic matter and physical and chemical parameters. <i>Science of the Total Environment</i> , 2019, 656, 388-399.	3.9	23
41	Flood pulse and spatial dynamics of mercury in sediments in Puruzinho lake, Brazilian Amazon. <i>Acta Amazonica</i> , 2014, 44, 99-105.	0.3	21
42	Mercury persistence in indoor environments in the Amazon Region, Brazil. <i>Environmental Research</i> , 2004, 96, 235-238.	3.7	20
43	Mercury in muscle and brain of catfish from the Madeira river, Amazon, Brazil. <i>Ecotoxicology and Environmental Safety</i> , 2015, 118, 90-97.	2.9	20
44	Methylmercury in environmental compartments of a hydroelectric reservoir in the Western Amazon, Brazil. <i>Chemosphere</i> , 2019, 215, 758-765.	4.2	19
45	Mercury biomagnification in an ichthyic food chain of an amazon floodplain lake (Puruzinho Lake): Influence of seasonality and food chain modeling. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111249.	2.9	19
46	Persistent toxic substances in the Brazilian Amazon: contamination of man and the environment. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 1175-1179.	0.6	17
47	Methylmercury Modulation in Amazon Rivers Linked to Basin Characteristics and Seasonal Flood-Pulse. <i>Environmental Science &amp; Technology</i> , 2017, 51, 14182-14191.	4.6	17
48	Heterogeneity of Multimedia Exposures to Neurotoxic Elements (Al, As, Cd, Pb, Mn, and Hg) in Breastfed Infants from Porto Velho, Brazil. <i>Biological Trace Element Research</i> , 2018, 184, 7-15.	1.9	16
49	Iron status as a covariate in methylmercury-associated neurotoxicity risk. <i>Chemosphere</i> , 2014, 100, 89-96.	4.2	15
50	Spatial-temporal dynamics and sources of total Hg in a hydroelectric reservoir in the Western Amazon, Brazil. <i>Environmental Science and Pollution Research</i> , 2016, 23, 9640-9648.	2.7	15
51	Mercury concentration in six fish guilds from a floodplain lake in western Amazonia: Interaction between seasonality and feeding habits. <i>Ecological Indicators</i> , 2020, 111, 106056.	2.6	14
52	Mercury in Indigenous, Introduced and Farmed Fish from the Semiarid Region of the Jaguaribe River Basin, NE Brazil. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2014, 93, 31-35.	1.3	13
53	Mercury in breast milk from women in the Federal District, Brazil and dietary risk assessment for breastfed infants. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017, 44, 99-103.	1.5	12
54	Dynamics of Hg and MeHg in the Madeira River basin (Western Amazon) before and after impoundment of a run-of-river hydroelectric dam. <i>Environmental Research</i> , 2020, 189, 109896.	3.7	12

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55	Influence of size on total mercury (THg), methyl mercury (MeHg), and stable isotopes of N and C in green turtles ( <i>Chelonia mydas</i> ) from NE Brazil. <i>Environmental Science and Pollution Research</i> , 2020, 27, 20527-20537.	2.7	12
56	Modeling the dynamics of DDT in a remote tropical floodplain: indications of post-ban use?. <i>Environmental Science and Pollution Research</i> , 2016, 23, 10317-10334.	2.7	11
57	DDT in fishes and soils of lakes from Brazilian Amazon: case study of Puruzinho Lake (Amazon, Brazil). <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 306-311.	0.6	10
58	Influence of the flood pulse on mercury accumulation in detritivorous, herbivorous and omnivorous fish in Brazilian Amazonia. <i>Ecotoxicology</i> , 2019, 28, 478-485.	1.1	10
59	Dynamics of (total and methyl) mercury in sediment, fish, and crocodiles in an Amazonian Lake and risk assessment of fish consumption to the local population. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 101.	1.3	10
60	Total mercury and methylmercury in river dolphins ( <i>Cetacea: Iniidae: Inia spp.</i> ) in the Madeira River Basin, Western Amazon. <i>Environmental Science and Pollution Research</i> , 2021, 28, 45121-45133.	2.7	10
61	Do fish isotopic niches change in an Amazon floodplain lake over the hydrological regime?. <i>Ecology of Freshwater Fish</i> , 2022, 31, 72-80.	0.7	10
62	Mercury in blood, hair, and feces from subsistence fish-eating riverines of the Madeira River Basin (Western Amazon). <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 67, 126773.	1.5	10
63	Mercury in birds (aquatic and scavenger) from the Western Amazon. <i>Environmental Research</i> , 2021, 201, 111574.	3.7	9
64	Bioaccumulation of methylmercury in fish tissue from the Roosevelt River, Southwestern Amazon basin. <i>Revista Ambiente &amp; Água</i> , 2016, 11, 508.	0.1	8
65	Chromium distribution in an Amazonian river exposed to tannery effluent. <i>Environmental Science and Pollution Research</i> , 2016, 23, 22019-22026.	2.7	8
66	Sediment contaminant levels and multibiomarker approach to assess the health of catfish <i>Sciades herzbergii</i> in a harbor from the northern Brazilian Amazon. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111540.	2.9	8
67	Mercury in wild animals and fish and health risk for indigenous Amazonians. <i>Food Additives and Contaminants: Part B Surveillance</i> , 2021, 14, 161-169.	1.3	8
68	Zumbido em uma população ribeirinha exposta ao metilmercúrio. <i>Audiology: Communication Research</i> , 2014, 19, 40-44.	0.1	8
69	Mercury in Black-Waters of the Amazon. , 2018, , 39-56.		7
70	Variation in Hg accumulation between demersal and pelagic fish from Puruzinho Lake, Brazilian Amazon. <i>Ecotoxicology</i> , 2019, 28, 1143-1149.	1.1	7
71	Prevalência de hipertensão arterial em comunidades ribeirinhas do Rio Madeira, Amazônia Ocidental Brasileira. <i>Cadernos De Saude Publica</i> , 2013, 29, 1617-1630.	0.4	7
72	Freshwater shrimps ( <i>Macrobrachium depressimanum</i> and <i>Macrobrachium jelskii</i> ) as biomonitors of Hg availability in the Madeira River Basin, Western Amazon. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 77.	1.3	6

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73	Ecological and biological factors associated to mercury accumulation in batoids (Chondrichthyes: Tj ETQq1 1 0.784314 rgBT/Overlook	2.3	6
74	Assessment of trace metals in Amazonian fish exposed to untreated urban sewage: high chromium concentrations in fish tissues. Revista Ambiente & Água, 2015, 10, .	0.1	5
75	Mercury and methylmercury in carapace of the marine turtle <i>Caretta caretta</i> , in northeastern Brazil and its potential for environmental monitoring. Anais Da Academia Brasileira De Ciencias, 2019, 91, e20180672.	0.3	5
76	Avaliação da qualidade da água subterrânea para consumo humano: estudo de caso no Distrito de Jaci-Paraná, Porto Velho - RO. Revista Águas Subterrâneas, 2016, 30, 246.	0.1	5
77	Let's talk about mercury contamination in the Amazon (again): The case of the floating gold miners™ village on the Madeira River. The Extractive Industries and Society, 2022, 11, 101122.	0.7	5
78	Impact of Land Use on the Mobility of Hg Species in Different Compartments of a Tropical Watershed in Brazil. Archives of Environmental Contamination and Toxicology, 2017, 73, 578-592.	2.1	4
79	Avaliação da qualidade da água subterrânea: estudo de caso de Vilhena - RO. Revista Águas Subterrâneas, 2015, 29, 213.	0.1	4
80	Risk of exposure to Hg and pesticides residues in a traditional fishing community in the Amazon: a probabilistic approach based on dietary pattern. Environmental Science and Pollution Research, 2022, 29, 34164-34173.	2.7	4
81	Spatial-temporal dynamics of Cr in fish from Puruzinho Lake (Western Amazon) and dietary risk assessment. Chemosphere, 2022, 300, 134576.	4.2	4
82	Decay of Free Residual Chlorine in Wells Water of Northern Brazil. Water (Switzerland), 2021, 13, 992.	1.2	3
83	Estudos de biodegradação de óleo diesel por consórcio microbiano coletado em Porto Velho - RO, Amazônia. Química Nova, 2011, 34, 775-779.	0.3	3
84	Prevalence and factors associated with mercury exposure in riverside communities in the Brazilian Western Amazon. Revista Brasileira De Enfermagem, 2020, 73, e20200100.	0.2	3
85	Mercury in the brain (tumor tissues) and in markers (hair and blood) of exposure in Western Amazonia patients. Journal of Trace Elements in Medicine and Biology, 2022, 72, 126994.	1.5	3
86	Aplicação do modelo Tucker-3 para a análise da biodegradação de diesel. Química Nova, 2010, 33, 1464-1470.	0.3	2
87	METHODOLOGIES FOR SAMPLING, PRESERVATION AND STORAGE OF WATER SAMPLES FOR MERCURY ANALYSIS - A REVIEW. Química Nova, 2015, , .	0.3	2
88	Dynamics of metals in lacustrine sediments: case study of the Madeira River, Amazon region. Revista Brasileira De Recursos Hidricos, 2018, 23, .	0.5	2
89	POTENCIAL EXPOSIÇÃO AO MERCÚRIO ATMOSFÉRICO NO AMBIENTE OCUPACIONAL DE COMÉRCIOS DE OURO DE PORTO VELHO, RONDÔNIA. Química Nova, 2018, 2018, .	0.3	2
90	Data relating neurodevelopment of exclusively breastfed children of urban mothers and pre- and post-natal mercury exposure. Data in Brief, 2019, 25, 104283.	0.5	1

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91	Influence of Iron on Physiological Parameters and Intracellular Microcystin in <i>Microcystis Panniformis</i> Strain Isolated from a Reservoir in the Amazon. <i>Current Microbiology</i> , 2021, 78, 2345-2354.	1.0	1
92	Metais em sedimentos de fundo na bacia do alto rio Madeira, Bacia Amazônica. <i>Scientia Amazonia</i> , 2015, 4, 91.	0.1	1
93	Aplicação da Análise Geoestatística para Modelagem Espacial do Mercúrio e Matéria Orgânica em Solos Florestais na Amazônia Ocidental. <i>Fronteiras</i> , 2015, 4, 31.	0.0	1
94	Groundwater quality and underground flow in southern Amazon, Brazil. <i>Revista Ibero-americana De Ciências Ambientais</i> , 2019, 10, 206-217.	0.0	1
95	Mercury in muscle and liver of <i>Plagioscion squamosissimus</i> (Acanthuriformes: Sciaenidae) from the Machado River, Brazilian Amazon. <i>Acta Amazonica</i> , 2022, 52, 60-68.	0.3	1
96	Dynamics of mercury in the plankton of a hydroelectric reservoir, Western Amazon. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 647.	1.3	0
97	Persistent toxic substances in the Brazilian Amazon: contamination of man and the environment. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 571-571.	0.6	0
98	Occurrence of aquatic macroinvertebrates in an extratropical reserve of Brazilian Amazon. <i>Revista De Biologia Neotropical / Journal of Neotropical Biology</i> , 2019, 16, 50-60.	0.1	0
99	Análise da qualidade da água subterrânea. <i>Revista Águas Subterrâneas</i> , 2020, 35, .	0.1	0
100	Mapeamento da Fragilidade Ambiental Potencial do Meio Físico da Área Urbana do Município de Lábrea - Sul do Amazonas. <i>Revista Brasileira De Cartografia</i> , 2020, 72, 651-664.	0.1	0
101	Progressive resistance exercise prevents muscle strength loss due to muscle atrophy induced by methylmercury systemic intoxication. <i>JCSM Clinical Reports</i> , 2021, 6, 80-92.	0.5	0
102	Evaluation of the quality of groundwater in the municipality of Ji-Paraná, Rondônia, in the Brazilian Amazon region. <i>Revista Ibero-americana De Ciências Ambientais</i> , 2022, 12, 225-235.	0.0	0