Wanderley Rodrigues Bastos

List of Publications by Year
in descending order

102 papers	2,919 citations	159585 30 h-index	182427 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 TapajÃ³s river basin, Brazil. Science of the Total Environment, 1995, 175, 141-150.	8.0	230
2	Large emissions from floodplain trees close the Amazon methane budget. Nature, 2017, 552, 230-234.	27.8	204
3	Mercury in the environment and riverside population in the Madeira River Basin, Amazon, Brazil. Science of the Total Environment, 2006, 368, 344-351.	8.0	125
4	Mercury concentrations in inland waters of gold-mining areas in RondÃ´nia, Brazil. Science of the Total Environment, 1989, 87-88, 233-240.	8.0	111
5	Stable carbon isotope discrimination and microbiology of methane formation in tropical anoxic lake sediments. Biogeosciences, 2011, 8, 795-814.	3.3	100
6	An assessment of Hg pollution in different goldmining areas, Amazon Brazil. Science of the Total Environment, 1995, 175, 127-140.	8.0	98
7	Mercury-Selenium Relationships in Liver of Guiana Dolphin: The Possible Role of Kupffer Cells in the Detoxification Process by Tiemannite Formation. PLoS ONE, 2012, 7, e42162.	2.5	92
8	Maternal mercury exposure and neuro-motor development in breastfed infants from Porto Velho (Amazon), Brazil. International Journal of Hygiene and Environmental Health, 2007, 210, 51-60.	4.3	75
9	Fish consumption by traditional subsistence villagers of the Rio Madeira (Amazon): Impact on hair mercury. Annals of Human Biology, 2010, 37, 629-642.	1.0	75
10	Reservoir Stratification Affects Methylmercury Levels in River Water, Plankton, and Fish Downstream from Balbina Hydroelectric Dam, Amazonas, Brazil. Environmental Science & Technology, 2014, 48, 1032-1040.	10.0	74
11	Mercury in the Madeira River ecosystem, RondÃ´nia, Brazil. Forest Ecology and Management, 1991, 38, 239-245.	3.2	71
12	Mercury loss from soils following conversion from forest to pasture in RondÃ´nia, Western Amazon, Brazil. Environmental Pollution, 2005, 137, 179-186.	7.5	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. International Journal of Hygiene and Environmental Health, 2013, 216, 682-689.	4.3	62
14	Mercury in fish of the Madeira river (temporal and spatial assessment), Brazilian Amazon. Environmental Research, 2015, 140, 191-197.	7.5	61
15	Mercury dispersal in water, sediments and aquatic biota of a gold mining tailing deposit drainage in pocone, Brazil. Water, Air, and Soil Pollution, 1991, 55, 283.	2.4	57
16	Mercury biomagnification and the trophic structure of the ichthyofauna from a remote lake in the Brazilian Amazon. Environmental Research, 2016, 151, 286-296.	7.5	57
17	Chemodiversity of dissolved organic matter in the Amazon Basin. Biogeosciences, 2016, 13, 4279-4290.	3.3	53
18	Annual flooding and fish-mercury bioaccumulation in the environmentally impacted Rio Madeira (Amazon). Ecotoxicology, 2007, 16, 341-346.	2.4	51

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19	DDT and its metabolites in breast milk from the Madeira River basin in the Amazon, Brazil. Chemosphere, 2008, 73, S246-S251.	8.2	51
20	Mercury distribution in sediment profiles from lakes of the high pantanal, Mato Grosso State, Brazil. Biogeochemistry, 1991, 14, 91-97.	3.5	49
21	Prenatal and Postnatal Mercury Exposure, Breastfeeding and Neurodevelopment During the First 5 Years. Cognitive and Behavioral Neurology, 2009, 22, 134-141.	0.9	49
22	Mercury and DDT exposure risk to fish-eating human populations in Amazon. Environment International, 2011, 37, 56-65.	10.0	46
23	Contrasting the microbiomes from forest rhizosphere and deeper bulk soil from an Amazon rainforest reserve. Gene, 2018, 642, 389-397.	2.2	46
24	Hair mercury in breast-fed infants exposed to thimerosal-preserved vaccines. European Journal of Pediatrics, 2007, 166, 935-941.	2.7	45
25	Assessing Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans in Air across Latin American Countries Using Polyurethane Foam Disk Passive Air Samplers. Environmental Science & Technology, 2015, 49, 3680-3686.	10.0	45
26	Use of epiphyte plants as biomonitors to map atmospheric mercury in a gold trade center city, Amazon, Brazil. Science of the Total Environment, 1998, 213, 57-64.	8.0	42
27	The impact of hydroelectric dams on mercury dynamics in South America: A review. Chemosphere, 2019, 219, 546-556.	8.2	38
28	The Influence of Changes in Lifestyle and Mercury Exposure in Riverine Populations of the Madeira River (Amazon Basin) near a Hydroelectric Project. International Journal of Environmental Research and Public Health, 2014, 11, 2437-2455.	2.6	35
29	The influence of inundation and lake morphometry on the dynamics of mercury in the water and plankton in an Amazon floodplain lake. Hydrobiologia, 2017, 790, 35-48.	2.0	35
30	A description of mercury in fishes from the Madeira River Basin, Amazon, Brazil. Acta Amazonica, 2008, 38, 431-438.	0.7	34
31	Potential risks of natural mercury levels to wild predator fish in an Amazon reservoir. Environmental Monitoring and Assessment, 2012, 184, 4815-4827.	2.7	31
32	Principal component analysis and discrimination of variables associated with pre- and post-natal exposure to mercury. International Journal of Hygiene and Environmental Health, 2008, 211, 606-614.	4.3	29
33	Poor psychometric scores of children living in isolated riverine and agrarian communities and fishâ€“methylmercury exposure. NeuroToxicology, 2008, 29, 1008-1015.	3.0	29
34	The impacts of land use changes in the mercury flux in the Madeira River, Western Amazon. Anais Da Academia Brasileira De Ciencias, 2012, 84, 69-78.	0.8	29
35	Changes in children hair-Hg concentrations during the first 5 years: Maternal, environmental and iatrogenic modifying factors. Regulatory Toxicology and Pharmacology, 2007, 49, 17-24.	2.7	28
36	Mercury degassing from forested and open field soils in RondÃ´nia, Western Amazon, Brazil. Chemosphere, 2009, 77, 60-66.	8.2	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. Annals of Human Biology, 2008, 35, 363-377.	1.0	27
38	Sex-related mercury bioaccumulation in fish from the Madeira River, Amazon. Environmental Research, 2016, 144, 73-80.	7.5	27
39	Time of perinatal immunization, thimerosal exposure and neurodevelopment at 6 months in breastfed infants. Acta Paediatrica, International Journal of Paediatrics, 2007, 96, 864-868.	1.5	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. Science of the Total Environment, 2019, 656, 388-399.	8.0	23
41	Flood pulse and spatial dynamics of mercury in sediments in Puruzinho lake, Brazilian Amazon. Acta Amazonica, 2014, 44, 99-105.	0.7	21
42	Mercury persistence in indoor environments in the Amazon Region, Brazil. Environmental Research, 2004, 96, 235-238.	7.5	20
43	Mercury in muscle and brain of catfish from the Madeira river, Amazon, Brazil. Ecotoxicology and Environmental Safety, 2015, 118, 90-97.	6.0	20
44	Methylmercury in environmental compartments of a hydroelectric reservoir in the Western Amazon, Brazil. Chemosphere, 2019, 215, 758-765.	8.2	19
45	Mercury biomagnification in an ichthyic food chain of an amazon floodplain lake (Puruzinho Lake): Influence of seasonality and food chain modeling. Ecotoxicology and Environmental Safety, 2021, 207, 111249.	6.0	19
46	Persistent toxic substances in the Brazilian Amazon: contamination of man and the environment. Journal of the Brazilian Chemical Society, 2009, 20, 1175-1179.	0.6	17
47	Methylmercury Modulation in Amazon Rivers Linked to Basin Characteristics and Seasonal Flood-Pulse. Environmental Science & Technology, 2017, 51, 14182-14191.	10.0	17
48	Heterogeneity of Multimedia Exposures to Neurotoxic Elements (Al, As, Cd, Pb, Mn, and Hg) in Breastfed Infants from Porto Velho, Brazil. Biological Trace Element Research, 2018, 184, 7-15.	3.5	16
49	Iron status as a covariate in methylmercury-associated neurotoxicity risk. Chemosphere, 2014, 100, 89-96.	8.2	15
50	Spatial-temporal dynamics and sources of total Hg in a hydroelectric reservoir in the Western Amazon, Brazil. Environmental Science and Pollution Research, 2016, 23, 9640-9648.	5.3	15
51	Mercury concentration in six fish guilds from a floodplain lake in western Amazonia: Interaction between seasonality and feeding habits. Ecological Indicators, 2020, 111, 106056.	6.3	14
52	Mercury in Indigenous, Introduced and Farmed Fish from the Semiarid Region of the Jaguaribe River Basin, NE Brazil. Bulletin of Environmental Contamination and Toxicology, 2014, 93, 31-35.	2.7	13
53	Mercury in breast milk from women in the Federal District, Brazil and dietary risk assessment for breastfed infants. Journal of Trace Elements in Medicine and Biology, 2017, 44, 99-103.	3.0	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. Environmental Research, 2020, 189, 109896.	7.5	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 (Chelonia mydas) from NE Brazil. Environmental Science and Pollution Research, 2020, 27, 20527-20537.	5.3	12
56	Modeling the dynamics of DDT in a remote tropical floodplain: indications of post-ban use?. Environmental Science and Pollution Research, 2016, 23, 10317-10334.	5.3	11
57	DDT in fishes and soils of lakes from brazilian Amazon: case study of puruzinho lake (Amazon, Brazil). Journal of the Brazilian Chemical Society, 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. Ecotoxicology, 2019, 28, 478-485.	2.4	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. Environmental Monitoring and Assessment, 2020, 192, 101.	2.7	10
60	Total mercury and methylmercury in river dolphins (Cetacea: Iniidae: Inia spp.) in the Madeira River Basin, Western Amazon. Environmental Science and Pollution Research, 2021, 28, 45121-45133.	5.3	10
61	Do fish isotopic niches change in an Amazon floodplain lake over the hydrological regime?. Ecology of Freshwater Fish, 2022, 31, 72-80.	1.4	10
62	Mercury in blood, hair, and feces from subsistence fish-eating riverines of the Madeira River Basin (Western Amazon). Journal of Trace Elements in Medicine and Biology, 2021, 67, 126773.	3.0	10
63	Mercury in birds (aquatic and scavenger) from the Western Amazon. Environmental Research, 2021, 201, 111574.	7.5	9
64	Bioaccumulation of methylmercury in fish tissue from the Roosevelt River, Southwestern Amazon basin. Revista Ambiente & Ãgua, 2016, 11, 508.	0.3	8
65	Chromium distribution in an Amazonian river exposed to tannery effluent. Environmental Science and Pollution Research, 2016, 23, 22019-22026.	5.3	8
66	Sediment contaminant levels and multibiomarker approach to assess the health of catfish Sciades herzbergii in a harbor from the northern Brazilian Amazon. Ecotoxicology and Environmental Safety, 2021, 208, 111540.	6.0	8
67	Mercury in wild animals and fish and health risk for indigenous Amazonians. Food Additives and Contaminants: Part B Surveillance, 2021, 14, 161-169.	2.8	8
68	Zumbido em uma populaÃ§Ã£o ribeirinha exposta ao metilmercÃºrio. Audiology: Communication Research, 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. Ecotoxicology, 2019, 28, 1143-1149.	2.4	7
71	PrevalÃªncia de hipertensÃ£o arterial em comunidades ribeirinhas do Rio Madeira, AmazÃ´nia Ocidental Brasileira. Cadernos De Saude Publica, 2013, 29, 1617-1630.	1.0	7
72	Freshwater shrimps (Macrobrachium depressimanum and Macrobrachium jelskii) as biomonitors of Hg availability in the Madeira River Basin, Western Amazon. Environmental Monitoring and Assessment, 2018, 190, 77.	2.7	6

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73	Ecological and biological factors associated to mercury accumulation in batoids (Chondrichthyes:) Tj ETQq1 1 0.784314 rgBT /Overlock	5.0	6
74	Assessment of trace metals in Amazonian fish exposed to untreated urban sewage: high chromium concentrations in fish tissues. Revista Ambiente & Ãgua, 2015, 10, .	0.3	5
75	Mercury and methylmercury in carapace of the marine turtle Caretta caretta, in northeastern Brazil and its potential for environmental monitoring. Anais Da Academia Brasileira De Ciencias, 2019, 91, e20180672.	0.8	5
76	AvaliaÃ§Ã£o da qualidade da Ã¡gua subterrÃ¢nea para consumo humano: estudo de caso no Distrito de Jaci-ParanÃ¡, Porto Velho â€“ RO. Revista Ãguas SubterrÃ¢neas, 2016, 30, 246.	0.1	5
77	Let's talk about mercury contamination in the Amazon (again): The case of the floating gold minersâ€™ village on the Madeira River. The Extractive Industries and Society, 2022, 11, 101122.	1.2	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.	4.1	4
79	AvaliaÃ§Ã£o da qualidade da Ã¡gua subterrÃ¢nea: estudo de caso de Vilhena â€“ RO. Revista Ãguas SubterrÃ¢neas, 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.	5.3	4
81	Spatial-temporal dynamics of Cr in fish from Puruzinho Lake (Western Amazon) and dietary risk assessment. Chemosphere, 2022, 300, 134576.	8.2	4
82	Decay of Free Residual Chlorine in Wells Water of Northern Brazil. Water (Switzerland), 2021, 13, 992.	2.7	3
83	Estudos de biodegradaÃ§Ã£o de Ã³leo diesel por consÃ³rcio microbiano coletado em Porto Velho - RO, amazÃ´nia. Quimica 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.	0.7	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.	3.0	3
86	AplicaÃ§Ã£o do modelo Tucker-3 para a anÃ¡lise da biodegradaÃ§Ã£o de diesel. Quimica Nova, 2010, 33, 1464-1470.	0.3	2
87	METHODOLOGIES FOR SAMPLING, PRESERVATION AND STORAGE OF WATER SAMPLES FOR MERCURY ANALYSIS - A REVIEW. Quimica 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 EXPOSIÃ‡ÃƒO AO MERCÃšRIO ATMOSFÃ‰RICO NO AMBIENTE OCUPACIONAL DE COMÃ‰RCIOS DE OURO DE PORTO VELHO, RONDÃ”NIA. Quimica 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.	1.0	1

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91	Influence of Iron on Physiological Parameters and Intracellular Microcystin in Microcystis Panniformis Strain Isolated from a Reservoir in the Amazon. Current Microbiology, 2021, 78, 2345-2354.	2.2	1
92	Metais em sedimentos de fundo na bacia do alto rio Madeira, Bacia AmazÃ´nica. Scientia Amazonia, 2015, 4, 91.	0.1	1
93	AplicaÃ§Ã£o da AnÃ¡lise GeoestatÃstica para Modelagem Espacial do MercÃºrio e MatÃ©ria OrgÃ¢nica em Solos Florestais na AmazÃ´nia Ocidental. Fronteiras, 2015, 4, 31.	0.1	1
94	Groundwater quality and underground flow in southern Amazon, Brazil. Revista Ibero-americana De CiÃªncias Ambientais, 2019, 10, 206-217.	0.1	1
95	Mercury in muscle and liver of Plagioscion squamosissimus (Acanthuriformes: Sciaenidae) from the Machado River, Brazilian Amazon. Acta Amazonica, 2022, 52, 60-68.	0.7	1
96	Dynamics of mercury in the plankton of a hydroelectric reservoir, Western Amazon. Environmental Monitoring and Assessment, 2020, 192, 647.	2.7	0
97	Persistent toxic substances in the Brazilian Amazon: contamination of man and the environment. Journal of the Brazilian Chemical Society, 2010, 21, 571-571.	0.6	0
98	Occurrence of aquatic macroinvertebrates in an extrativist reserve of brazilian Amazon. Revista De Biologia Neotropical / Journal of Neotropical Biology, 2019, 16, 50-60.	0.1	0
99	AnÃ¡lise da qualidade da Ã¡gua subterrÃ¢nea. Revista Ãguas SubterrÃ¢neas, 2020, 35, .	0.1	0
100	Mapeamento da Fragilidade Ambiental Potencial do Meio FÃsico da Ãrea Urbana do MunicÃpio de LÃ¡brea â€“ Sul do Amazonas. Revista Brasileira De Cartografia, 2020, 72, 651-664.	0.2	0
101	Progressive resistance exercise prevents muscle strength loss due to muscle atrophy induced by methylmercury systemic intoxication. JCSM Clinical Reports, 2021, 6, 80-92.	1.3	0
102	Evaluation of the quality of groundwater in the municipality of Ji-ParanÃ¡, RondÃ´nia, in the Brazilian Amazon region. Revista Ibero-americana De CiÃªncias Ambientais, 2022, 12, 225-235.	0.1	0