Tatiana Saint Pierre

List of Publications by Year
in descending order

86 papers	1,653 citations	279487 23 h-index	377514 34 g-index
86 all docs	86 docs citations	86 times ranked	1986 citing authors

#	Article	IF	Citations
1	Determination of Cu, Mn, Ni and Sn in gasoline by electrothermal vaporization inductively coupled plasma mass spectrometry, and emulsion sample introduction. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1991-2001.	1.5	80
2	Method development for the determination of cadmium, copper, lead, selenium and thallium in sediments by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry and isotopic dilution calibration. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 117-124.	1.5	73
3	Determination of Cd, Cu, Fe, Pb and Tl in gasoline as emulsion by electrothermal vaporization inductively coupled plasma mass spectrometry with analyte addition and isotope dilution calibration techniques. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 551-558.	1.5	69
4	Determination of Co, Cu, Fe, Mn, Ni and V in diesel and biodiesel samples by ETV-ICP-MS. Journal of Environmental Monitoring, 2008, 10, 1211.	2.1	53
5	Study of the chemical composition of particulate matter from the Rio de Janeiro metropolitan region, Brazil, by inductively coupled plasma-mass spectrometry and optical emission spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 86, 131-136.	1.5	49
6	The development of a method for the determination of trace elements in fuel alcohol by ETV-ICP-MS using isotope dilution calibration. Talanta, 2006, 68, 957-962.	2.9	47
7	Sample Preparation for Determination of Rare Earth Elements in Geological Samples by ICP-MS: A Critical Review. Analytical Letters, 2012, 45, 1537-1556.	1.0	45
8	Contamination and oxidative stress biomarkers in estuarine fish following a mine tailing disaster. PeerJ, 2020, 8, e10266.	0.9	45
9	Metal, metallothionein and glutathione levels in blue crab (Callinectes sp.) specimens from southeastern Brazil. Ecotoxicology and Environmental Safety, 2014, 107, 55-60.	2.9	42
10	Trace elemental determination in alcohol automotive fuel by electrothermal atomic absorption spectrometry. Microchemical Journal, 2003, 75, 59-67.	2.3	41
11	Improvement of antioxidant status after Brazil nut intake in hypertensive and dyslipidemic subjects. Nutrition Journal, 2015, 14, 54.	1.5	39
12	High plasticity in habitat use of Lycengraulis grossidens (Clupeiformes, Engraulididae). Estuarine, Coastal and Shelf Science, 2014, 141, 17-25.	0.9	38
13	Chemical composition of fine particles (PM2.5): water-soluble organic fraction and trace metals. Air Quality, Atmosphere and Health, 2017, 10, 845-852.	1.5	38
14	The direct analysis of fuel ethanol by ICP-MS using a flow injection system coupled to an ultrasonic nebulizer for sample introduction. Journal of Analytical Atomic Spectrometry, 2006, 21, 1340-1344.	1.6	36
15	Differential metallothionein, reduced glutathione and metal levels in Perna perna mussels in two environmentally impacted tropical bays in southeastern Brazil. Ecotoxicology and Environmental Safety, 2016, 129, 75-84.	2.9	36
16	The development of a method for the determination of trace elements in fuel alcohol by electrothermal vaporizationâ€“inductively coupled plasma mass spectrometry using external calibration. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 605-613.	1.5	35
17	Determination of Na and K in biodiesel by flame atomic emission spectrometry and microemulsion sample preparation. Journal of the Brazilian Chemical Society, 2008, 19, 856-861.	0.6	32
18	Determination of arsenic, lead, selenium and tin in sediments by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry using Ru as permanent modifier and NaCl as a carrier. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 2003-2015.	1.5	30

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19	Chemical composition, sources, solubility, and transport of aerosol trace elements in a tropical region. Journal of Environmental Monitoring, 2011, 13, 2134.	2.1	30
20	Determination of As, Hg, Se and Sn in sediment slurries by CVGâ€“ETVâ€“ICPâ€“MS with trapping in an Ir treated graphite tube and calibration against aqueous standards. Journal of Analytical Atomic Spectrometry, 2004, 19, 297-300.	1.6	28
21	Acute selenium selenite exposure effects on oxidative stress biomarkers and essential metals and trace-elements in the model organism zebrafish (Danio rerio). Journal of Trace Elements in Medicine and Biology, 2016, 33, 68-72.	1.5	28
22	Determination of trace elements in fuel ethanol by ICP-MS using direct sample introduction by a microconcentric nebulizer. Journal of Analytical Atomic Spectrometry, 2008, 23, 1300.	1.6	26
23	Biosorptive removal of cadmium from aqueous solutions using a Streptomyces lunalinharesii strain. Minerals Engineering, 2012, 29, 112-120.	1.8	25
24	Contrasting effects of age on the plasma/whole blood lead ratio in men and women with a history of lead exposure. Environmental Research, 2006, 102, 90-95.	3.7	23
25	Calibration techniques and modifiers for the determination of Cd, Pb and Tl in biodiesel as microemulsion by graphite furnace atomic absorption spectrometry. Journal of the Brazilian Chemical Society, 2010, 21, 620-626.	0.6	23
26	Relationship between blood metals and inflammation in taxi drivers. Clinica Chimica Acta, 2015, 444, 176-181.	0.5	21
27	Toxic and essential metals in Narcine brasiliensis (Elasmobranchii: Narcinidae): A baseline ecotoxicological study in the Southeast Atlantic and preliminary maternal transfer implications. Marine Pollution Bulletin, 2019, 149, 110606.	2.3	21
28	Studies on the origin and transformation of selenium and its chemical species along the process of petroleum refining. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 491-499.	1.5	20
29	Investigation of thermostable metalloproteins in Perna perna mussels from differentially contaminated areas in Southeastern Brazil by bioanalytical techniques. Journal of Trace Elements in Medicine and Biology, 2016, 34, 70-78.	1.5	19
30	Exposure to environment chemicals and its possible role in endocrine disruption of children from a rural area. Environmental Research, 2018, 167, 488-498.	3.7	19
31	Use of iridium plus rhodium as permanent modifier to determine As, Cd and Pb in acids and ethanol by electrothermal atomic absorption spectrometry. Microchemical Journal, 2004, 77, 151-156.	2.3	18
32	Comparison of parallel flow and concentric micronebulizers for elemental determination in lubricant oil, residual fuel oil and biodiesel by Inductively Coupled Plasma Optical Emission Spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 356-361.	1.5	18
33	Multielemental determination in oil matrices diluted in xylene by ICP-MS with a dynamic reaction cell employing methane as reaction gas for solving specific interferences. Journal of Analytical Atomic Spectrometry, 2012, 27, 1280.	1.6	18
34	Prolonged estuarine habitat use by dusky grouper Epinephelus marginatus at subtropical latitudes revealed by otolith microchemistry. Endangered Species Research, 2016, 29, 271-277.	1.2	18
35	Evaluation and standardization of different purification procedures for fish bile and liver metallothionein quantification by spectrophotometry and SDS-PAGE analyses. Talanta, 2014, 120, 491-497.	2.9	17
36	Tissue distribution of residual antimony in rats treated with multiple doses of meglumine antimoniate. Memorias Do Instituto Oswaldo Cruz, 2014, 109, 420-427.	0.8	17

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37	Investigating heavy metal bioaccumulation by macrofauna species from different feeding guilds from sandy beaches in Rio de Janeiro, Brazil. Ecotoxicology and Environmental Safety, 2018, 162, 655-662.	2.9	17
38	Biochemical, hematological and immunological parameters and relationship with occupational exposure to pesticides and metals. Environmental Science and Pollution Research, 2020, 27, 29291-29302.	2.7	17
39	Determination of Hg and Tl in environmental reference materials using slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry with permanganate as modifier and calibration against aqueous standards. Journal of Analytical Atomic Spectrometry, 2003, 18, 344-349.	1.6	16
40	Are Delta-Aminolevulinate Dehydratase Inhibition and Metal Concentrations Additional Factors for the Age-Related Cognitive Decline?. International Journal of Environmental Research and Public Health, 2014, 11, 10851-10867.	1.2	16
41	Sublethal psychotropic pharmaceutical effects on the model organism Danio rerio: Oxidative stress and metal dishomeostasis. Ecotoxicology and Environmental Safety, 2019, 171, 781-789.	2.9	16
42	Subcellular metal distributions and metallothionein associations in rough-toothed dolphins (Steno) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.3	16
43	Rationally designed dipicolinate-functionalized silica for highly efficient recovery of rare-earth elements from e-waste. Journal of Hazardous Materials, 2021, 408, 124976.	6.5	16
44	Direct Determination of Dy, Sm, Eu, Tm, and Yb in Geological Samples by Slurry Electrothermal Vaporization Inductively Coupled Plasma Mass Spectrometry. Analytical Letters, 2010, 43, 949-959.	1.0	15
45	Direct determination of P in biodiesel by high-resolution continuum source graphite furnace atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 352-355.	1.5	15
46	Determination of Hg in water associate to crude oil production by electrothermal vaporization inductively coupled plasma mass spectrometry. Microchemical Journal, 2013, 109, 41-45.	2.3	15
47	Leave forever or return home? The case of the whitemouth croaker Micropogonias furnieri in coastal systems of southeastern Brazil indicated by otolith microchemistry. Marine Environmental Research, 2019, 144, 28-35.	1.1	14
48	Assessment of trace elements, POPs, 210Po and stable isotopes (15N and 13C) in a rare filter-feeding shark: The megamouth. Marine Pollution Bulletin, 2015, 95, 402-406.	2.3	13
49	Effects of in utero and lactational exposure to SbV on rat neurobehavioral development and fertility. Reproductive Toxicology, 2014, 50, 98-107.	1.3	12
50	Interspecific variation of essential and non-essential trace elements in sympatric seabirds. Environmental Pollution, 2018, 242, 470-479.	3.7	12
51	Biochemical metal accumulation effects and metalloprotein metal detoxification in environmentally exposed tropical Perna perna mussels. Ecotoxicology and Environmental Safety, 2021, 208, 111589.	2.9	12
52	High performance liquid chromatography hyphenated to inductively coupled plasma mass spectrometry for V and Ni quantification as tetrapyrroles. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 362-367.	1.5	11
53	Method for the quantification of vanadyl porphyrins in fractions of crude oils by High Performance Liquid Chromatographyâ€“Flow Injectionâ€“Inductively Coupled Plasma Mass Spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 119, 1-9.	1.5	11
54	Exploratory and comparative analysis of the morphology and chemical composition of PM2.5 from regions with different socioeconomic characteristics. Microchemical Journal, 2019, 147, 507-515.	2.3	11

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55	Determination of Cd and Pb in fuel ethanol by filter furnace electrothermal atomic absorption spectrometry. Quimica Nova, 2008, 31, 1626-1630.	0.3	10
56	Dual-opposite end multiple injection method applied to sequential determination of Na+, K+, Ca+2, Mg+2 ions and free and total glycerol in biodiesel by capillary zone electrophoresis. Journal of Chromatography A, 2018, 1570, 148-154.	1.8	10
57	Biliary and hepatic metallothionein, metals and trace elements in environmentally exposed neotropical cichlids Geophagus brasiliensis. Journal of Trace Elements in Medicine and Biology, 2018, 50, 347-355.	1.5	10
58	Toxic elements in packed red blood cells from smoker donors: a risk for paediatric transfusion?. Vox Sanguinis, 2019, 114, 808-815.	0.7	10
59	Direct determination of selenium in urine samples by electrothermal atomic absorption spectrometry using a Zr plus Rh-treated graphite tube and co-injection of Rh as chemical modifier. Analytical and Bioanalytical Chemistry, 2005, 383, 825-832.	1.9	9
60	Determination and Evaluation of Metallothionein and Metals in Mugil cephalus (Mullet) from Pontal Bay, Brazil. Bulletin of Environmental Contamination and Toxicology, 2017, 98, 84-90.	1.3	9
61	El NiÃ±o â€“ Southern Oscillation drives variations in growth and otolith chemistry in a top predatory fish. Ecological Indicators, 2021, 121, 106989.	2.6	9
62	Determination of trace metals in electrolytic copper by ICP OES and ICP-MS. Brazilian Archives of Biology and Technology, 2005, 48, 681-687.	0.5	8
63	Metal-Associated Biomarker Responses in Crabs from a Marine Protected Area in Southeastern Brazil. Archives of Environmental Contamination and Toxicology, 2020, 78, 463-477.	2.1	8
64	Macrominerals and Trace Minerals in Commercial Infant Formulas Marketed in Brazil: Compliance With Established Minimum and Maximum Requirements, Label Statements, and Estimated Daily Intake. Frontiers in Nutrition, 2022, 9, 857698.	1.6	8
65	Assessment of the equivalence and correlation between total sulfur determination methods in biodiesel: An use of isotope dilution inductively coupled plasma mass spectrometry. Fuel, 2017, 202, 227-232.	3.4	7
66	Determination of rare earth elements in environmental samples with high concentrations of barium by quadrupole inductively coupled plasma mass spectrometry. Microchemical Journal, 2019, 149, 104026.	2.3	7
67	Dietary exposure to mercury and its relation to cytogenetic instability in populations from â€œLa Mojanaâ€•region, northern Colombia. Chemosphere, 2021, 265, 129066.	4.2	7
68	Direct determination of Cr and Ni in oil samples by isotope dilution and external standard calibration using inductively coupled plasma mass spectrometry. Microchemical Journal, 2019, 151, 104219.	2.3	6
69	Total and subcellular Ti distribution and detoxification processes in Pontoporia blainvillei and Steno bredanensis dolphins from Southeastern Brazil. Marine Pollution Bulletin, 2020, 153, 110975.	2.3	6
70	A Review on Atmospheric Analysis Focusing on Public Health, Environmental Legislation and Chemical Characterization. Critical Reviews in Analytical Chemistry, 2022, 52, 1772-1794.	1.8	6
71	Dynamic Reaction Cell-ICP-MS as a Powerful Tool for Quality Control of a Se-Enriched Dietary Supplement. Food Analytical Methods, 2017, 10, 3088-3097.	1.3	5
72	Coastal zone use and migratory behaviour of the southern population of Mugil liza in Brazil. Journal of Fish Biology, 2019, 95, 1207-1214.	0.7	5

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73	Sediment quality of a Ramsar site assessed by chemical and ecotoxicological approaches. Regional Studies in Marine Science, 2020, 35, 101145.	0.4	5
74	Estimation of total arsenic contamination and exposure in Brazilian rice and infant cereals. Drug and Chemical Toxicology, 2021, 44, 400-408.	1.2	5
75	Elemental Contamination in Brown Mussels (Perna perna) Marketed in Southeastern Brazil. Biological Trace Element Research, 2022, 200, 402-412.	1.9	5
76	In vivo and in vitro effects of pentavalent antimony on mouse liver cytochrome P450s. Human and Experimental Toxicology, 2017, 36, 33-41.	1.1	4
77	Chemical modification for sulfur determination in human hair by high-resolution continuum source graphite furnace molecular absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 174, 106008.	1.5	4
78	Extraction of petroleum emulsified water and characterization of major ions for the evaluation of its origin. Fuel, 2017, 209, 315-321.	3.4	3
79	Assessment of ambient aerosol sources in two important Atlantic Rain Forest hotspots in the surroundings of a megacity. Urban Forestry and Urban Greening, 2020, 56, 126858.	2.3	3
80	From air to heart: Particle pollution (PM2.5) and induced injury on cardioblast cells. Atmospheric Pollution Research, 2021, 12, 152-159.	1.8	3
81	First record of a morphologically abnormal and highly metal-contaminated Spotback Skate Atlantoraja castelnaui (Rajiformes: Arhynchobatidae) from southeastern Rio de Janeiro, Brazil. Journal of Threatened Taxa, 2020, 12, 16510-16520.	0.1	3
82	Subcellular metal partitioning as a novel tool in ecotoxicological elasmobranch assessments: The case of lesser numbfish (Narcine brasiliensis) affected by the Mariana dam disaster in Southeastern Brazil. Marine Pollution Bulletin, 2022, 177, 113569.	2.3	3
83	Spectrophotometric Determination of Manganese in Steels by On-Line Electrochemical Oxidation. Journal of the Brazilian Chemical Society, 1998, 9, 145-150.	0.6	2
84	Peptide labeling with lanthanide-NHS-ester-DOTA investigated by nano-HPLC. Microchemical Journal, 2015, 118, 238-241.	2.3	1
85	Hair mineralogram analysis for health assessment: Statistical bias from gender and aesthetic treatments. Brazilian Journal of Analytical Chemistry, 2021, , .	0.3	0
86	Microextraction Induced by Emulsion Break (MIEB): A Practical Option for the Preparation of Diesel Oil Samples for Determination of Cu, Ni and Pb by Graphite Furnace Atomic Absorption Spectrometry. Revista Virtual De Quimica, 0, , .	0.1	0