

Pedro M Padilha

List of Publications by Year in descending order

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107
papers

2,354
citations

201385

27
h-index

253896

43
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109
all docs

109
docs citations

109
times ranked

2464
citing authors

#	ARTICLE	IF	CITATIONS
1	Banana Peel Applied to the Solid Phase Extraction of Copper and Lead from River Water: Preconcentration of Metal Ions with a Fruit Waste. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 3446-3451.	1.8	144
2	Copper determination in ethanol fuel by differential pulse anodic stripping voltammetry at a solid paraffin-based carbon paste electrode modified with 2-aminothiazole organofunctionalized silica. <i>Talanta</i> , 2007, 71, 771-777.	2.9	95
3	Optimum zinc supplementation level in Nile tilapia <i>Oreochromis niloticus</i> juveniles diets. <i>Aquaculture</i> , 2004, 238, 385-401.	1.7	91
4	Studies on the adsorption and kinetics of photodegradation of a model compound for heterogeneous photocatalysis onto TiO ₂ . <i>Chemosphere</i> , 2006, 64, 1128-1133.	4.2	83
5	Production of milk peptides with antimicrobial and antioxidant properties through fungal proteases. <i>Food Chemistry</i> , 2019, 278, 823-831.	4.2	83
6	Synthesis, characterization and determination of the metal ions adsorption capacity of cellulose modified with p-aminobenzoic groups. <i>Materials Research</i> , 2004, 7, 329-334.	0.6	83
7	Determination of copper, iron, nickel and zinc in gasoline by FAAS after sorption and preconcentration on silica modified with 2-aminothiazole groups. <i>Fuel</i> , 2005, 84, 305-309.	3.4	73
8	Determination of Metal Ions in Natural Waters by Flame-AAS after Preconcentration on a 5-Amino-1,3,4-Thiadiazole-2-Thiol Modified Silica Gel.. <i>Analytical Letters</i> , 1999, 32, 1807-1820.	1.0	72
9	Determination of Cu, Ni, and Zn in fuel ethanol by FAAS after enrichment in column packed with 2-aminothiazole-modified silica gel. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 574-577.	1.9	65
10	Preconcentration and determination of Cu(II) in a fresh water sample using modified silica gel as a solid-phase extraction adsorbent. <i>Journal of Hazardous Materials</i> , 2010, 175, 399-403.	6.5	61
11	GFAAS determination of mercury in muscle samples of fish from Amazon, Brazil. <i>Food Chemistry</i> , 2013, 141, 2614-2617.	4.2	54
12	Preconcentration of heavy metals ions from aqueous solutions by means of cellulose phosphate: an application in water analysis. <i>Talanta</i> , 1997, 45, 317-323.	2.9	50
13	Relative bioavailability of zinc in supplemental inorganic and organic sources for Nile tilapia <i>Oreochromis niloticus</i> fingerlings. <i>Aquaculture Nutrition</i> , 2005, 11, 273-281.	1.1	50
14	FAAS determination of metal nutrients in fish feed after ultrasound extraction. <i>Food Chemistry</i> , 2009, 113, 679-683.	4.2	45
15	Determination of Metal Ions in Fuel Ethanol after Preconcentration on 5-Amino-1,3,4-Thiadiazole-2-Thiol Modified Silica Gel. <i>Journal of the Brazilian Chemical Society</i> , 1998, 9, 494-498.	0.6	44
16	Mercury fractionation in dourada (<i>Brachyplatystoma rousseauxii</i>) of the Madeira River in Brazil using metalloproteomic strategies. <i>Talanta</i> , 2015, 132, 239-244.	2.9	43
17	Titanium released from dental implant enhances preosteoblast adhesion by ROS modulating crucial intracellular pathways. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2968-2976.	2.1	38
18	Analytical approach to the metallomic of Nile tilapia (<i>Oreochromis niloticus</i>) liver tissue by SRXRF and FAAS after 2D-PAGE separation: Preliminary results. <i>Talanta</i> , 2010, 82, 1052-1056.	2.9	36

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19	Evaluation of pH and calcium ion release of new root-end filling materials. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2009, 108, 135-139.	1.6	35
20	Effect of iron on bovine enamel and on the composition of the dental biofilm formed <i>in situ</i> . <i>Archives of Oral Biology</i> , 2006, 51, 471-475.	0.8	34
21	Incorporation of dithiooxamide as a complexing agent into cellulose for the removal and pre-concentration of Cu(II) and Cd(II) ions from natural water samples. <i>Applied Surface Science</i> , 2013, 264, 368-374.	3.1	34
22	Bioanalytical methods for the metalloproteomics study of bovine longissimus thoracis muscle tissue with different grades of meat tenderness in the Nellore breed (<i>Bos indicus</i>). <i>Food Chemistry</i> , 2015, 169, 65-72.	4.2	33
23	A solid paraffin-based carbon paste electrode modified with 2-aminothiazole organofunctionalized silica for differential pulse adsorptive stripping analysis of nickel in ethanol fuel. <i>Analytica Chimica Acta</i> , 2007, 584, 295-301.	2.6	32
24	Determination of Cu, Ni and Pb in aqueous medium by FAAS after pre-concentration on 2-aminothiazole modified silica gel. <i>Journal of the Brazilian Chemical Society</i> , 2004, 15, 366-371.	0.6	31
25	Determination of chromium by GFAAS in slurries of fish feces to estimate the apparent digestibility of nutrients in feed used in pisciculture. <i>Talanta</i> , 2006, 69, 1025-1030.	2.9	29
26	Aplicação e modificação química da sílica gel obtida de areia. <i>Quimica Nova</i> , 2005, 28, 544-547.	0.3	28
27	Determination of selenium by GFAAS in slurries of fish feces to estimate the bioavailability of this micronutrient in feed used in pisciculture. <i>Chemosphere</i> , 2007, 68, 1542-1547.	4.2	28
28	A Preliminary and Qualitative Metallomics Study of Mercury in the Muscle of Fish from Amazonas, Brazil. <i>Biological Trace Element Research</i> , 2012, 150, 195-199.	1.9	27
29	Determination of Cadmium in River Water Samples by Flame AAS after On-line Preconcentration in Mini-Column Packed with 2-Aminothiazole-modified Silica Gel. <i>Analytical Sciences</i> , 2004, 20, 1029-1032.	0.8	26
30	Identification of protein biomarkers of mercury toxicity in fish. <i>Environmental Chemistry Letters</i> , 2017, 15, 717-724.	8.3	25
31	Metallomic study on plasma samples from Nile tilapia using SR-XRF and GFAAS after separation by 2D PAGE: initial results. <i>Mikrochimica Acta</i> , 2011, 173, 43-49.	2.5	24
32	Determination of the Mercury Fraction Linked to Protein of Muscle and Liver Tissue of Tucunaré (Cichla spp.) from the Amazon Region of Brazil. <i>Archives of Environmental Contamination and Toxicology</i> , 2015, 69, 422-430.	2.1	24
33	Tangential-flow ultrafiltration: a versatile methodology for determination of complexation parameters in refractory organic matter from Brazilian water and soil samples. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 1097-1100.	1.9	22
34	Oxigênio dissolvido (OD), demanda bioquímica de oxigênio (DBO) e demanda química de oxigênio (DQO) como parâmetros de poluição no ribeirão Lavapés/Botucatu - SP. <i>Ecletica Química</i> , 1997, 22, 49-66.	0.2	22
35	Blood and seminal plasma concentrations of selenium, zinc and testosterone and their relationship to sperm quality and testicular biometry in domestic cats. <i>Animal Reproduction Science</i> , 2014, 150, 50-55.	0.5	21
36	Determination of Copper, Iron, Nickel and Zinc in fuel kerosene by FAAS after adsorption and pre-concentration on 2-aminothiazole-modified silica gel. <i>Ecletica Química</i> , 2004, 29, 33-40.	0.2	21

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37	Application of Cellulose Modified with p-aminobenzoic Groups in Preconcentration System for Determination of Cu, Fe, Ni, and Zn in Fuel Ethanol Samples by Flame Atomic Absorption Spectrometry. <i>Separation Science and Technology</i> , 2007, 42, 1325-1340.	1.3	20
38	Total Mercury Determination in Muscle and Liver Tissue Samples from Brazilian Amazon Fish Using Slurry Sampling. <i>Biological Trace Element Research</i> , 2018, 184, 517-522.	1.9	20
39	A Metalloproteomics Study on the Association of Mercury With Breast Milk in Samples From Lactating Women in the Amazon Region of Brazil. <i>Archives of Environmental Contamination and Toxicology</i> , 2015, 69, 223-229.	2.1	19
40	A proteomic approach to identify metalloproteins and metal-binding proteins in liver from diabetic rats. <i>International Journal of Biological Macromolecules</i> , 2017, 96, 817-832.	3.6	19
41	Mercury Exposure: Protein Biomarkers of Mercury Exposure in Jaraqui Fish from the Amazon Region. <i>Biological Trace Element Research</i> , 2018, 183, 164-171.	1.9	19
42	4-amine-2-mercaptopyrimidine modified silica gel applied in Cd(II) and Pb(II) extraction from an aqueous medium. <i>Polish Journal of Chemical Technology</i> , 2010, 12, 7-11.	0.3	18
43	Sediment grain size distribution and heavy metals determination in a dam on the Paran River at Ilha Solteira, Brazil. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 861-865.	0.9	17
44	Modification of the head proteome of nurse honeybees (<i>Apis mellifera</i>) exposed to field-relevant doses of pesticides. <i>Scientific Reports</i> , 2020, 10, 2190.	1.6	17
45	Determination of Cd(II), Cu(II) and Ni(II) in aqueous samples by ICP-OES after on-line preconcentration in column packed with silica modified with 2-aminothiazole. <i>Mikrochimica Acta</i> , 2008, 160, 203-209.	2.5	16
46	Disponibilidade aparente do fsforo em alimentos vegetais e suplementao da enzima fitase para tilpia-do-nilo. <i>Revista Brasileira De Zootecnia</i> , 2007, 36, 1473-1480.	0.3	15
47	CoCrenriched medium modulates integrinbased downstream signaling and requires a set of inflammatory genes reprogramming <i>in vitro</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 839-849.	2.1	15
48	Characterization of molecular biomarkers of mercury exposure to muscle tissue of <i>Plagioscion squamosissimus</i> and <i>Colossoma macropomum</i> from the Amazon region. <i>Food Chemistry</i> , 2019, 276, 247-254.	4.2	15
49	Metalloproteomic approach of mercury-binding proteins in liver and kidney tissues of <i>Plagioscion squamosissimus</i> (corvina) and <i>Colossoma macropomum</i> (tambaqui) from Amazon region: Possible identification of mercury contamination biomarkers. <i>Science of the Total Environment</i> , 2020, 711, 134547.	3.9	15
50	Identification of Biomarkers of Mercury Contamination in <i>Brachyplatystoma filamentosum</i> of the Madeira River, Brazil, Using Metalloproteomic Strategies. <i>Biological Trace Element Research</i> , 2019, 187, 291-300.	1.9	14
51	Physiological and functional aspects of metal-binding protein associated with mercury in the liver tissue of pirarucu (<i>Arapaima gigas</i>) from the Brazilian Amazon. <i>Chemosphere</i> , 2019, 236, 124320.	4.2	14
52	TiO2 films organofunctionalized with 2-aminothiazole ligand and adsorbed Pd(II) ions applied in the photocatalytic degradation of phenol in an aqueous medium. <i>Thin Solid Films</i> , 2007, 515, 5334-5340.	0.8	13
53	Evaluation of Cu, Mn, and Se in Vegetables Using Ultrasonic Extraction and GFAAS Quantification. <i>Food Analytical Methods</i> , 2011, 4, 319-325.	1.3	13
54	Attachment of 2,2-bipyridine onto a silica gel for application as a sequestering agent for copper, cadmium and lead ions from an aqueous medium. <i>Polish Journal of Chemical Technology</i> , 2011, 13, 28-33.	0.3	13

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55	Layered Double Hydroxides Are Promising Nanomaterials for Tissue Bioengineering Application. <i>Advanced Biology</i> , 2019, 3, 1800238.	3.0	13
56	Organic Selenium Reaches the Central Nervous System and Downmodulates Local Inflammation: A Complementary Therapy for Multiple Sclerosis?. <i>Frontiers in Immunology</i> , 2020, 11, 571844.	2.2	13
57	Enhanced photocatalytic reduction of Hg(II) in aqueous medium by 2-aminothiazole-modified TiO ₂ particles. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 453-457.	0.6	12
58	New analytical procedure based on a cellulose bag and ionic exchanger with p-aminobenzoic acid groups for differentiation of labile and inert metal species in aquatic systems. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 2153-2160.	1.9	12
59	Metal ions bound to the human milk immunoglobulin A: Metalloproteomic approach. <i>Food Chemistry</i> , 2015, 166, 492-497.	4.2	12
60	Study of proteins with mercury in fish from the Amazon region. <i>Food Chemistry</i> , 2020, 309, 125460.	4.2	12
61	Contribuição da cidade de Botucatu - SP com nutrientes (fósforo e nitrogênio) na eutrofização da represa de Barra Bonita. <i>Eletica Quimica</i> , 1997, 22, 31-48.	0.2	12
62	Liver Proteome in Diabetes Type 1 Rat Model: Insulin-Dependent and -Independent Changes. <i>OMICS A Journal of Integrative Biology</i> , 2016, 20, 711-726.	1.0	11
63	Proteomic analysis of the fast-twitch muscle of pacu (<i>Piaractus mesopotamicus</i>) after prolonged fasting and compensatory growth. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2019, 30, 321-332.	0.4	11
64	The role of apoptosis associated speck-like protein containing a caspase-1 recruitment domain (ASC) in response to bone substitutes. <i>Materials Science and Engineering C</i> , 2020, 112, 110965.	3.8	11
65	Determinação de fósforo biodisponível em rações de peixes utilizando extração assistida por ultra-som e espectrofotometria no visível. <i>Quimica Nova</i> , 2009, 32, 923-927.	0.3	11
66	GFAAS Determination of Zinc in Fish Feed and Feces Using Slurry Sampling. <i>Food Analytical Methods</i> , 2009, 2, 162-168.	1.3	10
67	Feed digestibility and productive performance of bullfrogs fed in high and low frequency. <i>Aquaculture</i> , 2012, 326-329, 123-128.	1.7	10
68	Proteomic investigation of liver from beef cattle (<i>Bos indicus</i>) divergently ranked on residual feed intake. <i>Molecular Biology Reports</i> , 2018, 45, 2765-2773.	1.0	10
69	Photodegradation of soluble and emulsive cutting fluids using TiO ₂ as catalyst. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 737-740.	0.6	9
70	Manganese determination by GFAAS in feces and fish feed slurries. <i>Journal of the Brazilian Chemical Society</i> , 2007, 18, 1235-1241.	0.6	9
71	Synthesis, characterization, and application of modified silica in the removal and preconcentration of lead ions from natural river water. <i>Clean Technologies and Environmental Policy</i> , 2011, 13, 397-402.	2.1	9
72	Available phosphorus as a reproductive performance enhancer for female Nile tilapia. <i>Aquaculture</i> , 2018, 486, 202-209.	1.7	9

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73	câ€Src kinase contributes on endothelial cells mechanotransduction in a heat shock protein 70â€dependent turnover manner. <i>Journal of Cellular Physiology</i> , 2019, 234, 11287-11303.	2.0	9
74	Pre-concentration of Cd(II), Cr(III), Cu(II) and Ni(II) on a column packed with free carboxymethylcellulose (CMCH). <i>Journal of the Brazilian Chemical Society</i> , 1997, 8, 333-337.	0.6	8
75	Metalloproteomics Approach to Analyze Mercury in Breast Milk and Hair Samples of Lactating Women in Communities of the Amazon Basin, Brazil. <i>Biological Trace Element Research</i> , 2018, 181, 216-226.	1.9	8
76	Parvalbumin and Ubiquitin as Potential Biomarkers of Mercury Contamination of Amazonian Brazilian Fish. <i>Biological Trace Element Research</i> , 2020, 197, 667-675.	1.9	8
77	Metalloproteomic Strategies for Identifying Proteins as Biomarkers of Mercury Exposure in <i>Serrasalmus rhombus</i> from the Amazon Region. <i>Biological Trace Element Research</i> , 2021, 199, 712-720.	1.9	8
78	Selenium determination in tissue samples of Nile tilapia using ultrasound-assisted extraction. <i>Open Chemistry</i> , 2011, 9, 119-125.	1.0	7
79	Selenium fractionation from plasma, muscle and liver of Nile tilapia (<i>Oreochromis niloticus</i>). <i>Journal of Food Measurement and Characterization</i> , 2013, 7, 158-165.	1.6	7
80	Heavy Metal Accumulation in the Intestinal Tapeworm <i>Proteocephalus macrophallus</i> Infecting the Butterfly Peacock Bass (<i>Cichla ocellaris</i>), from Southeastern Brazil. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 103, 670-675.	1.3	7
81	Lability of Cd, Cr, Cu, Mn and Pb complexed by aquatic humic substances. <i>Eletica Quimica</i> , 2005, 30, 45-51.	0.2	7
82	Valor nutricional e viabilidade econÃmica de raÃes suplementadas com maltodextrina e acidificante para leitÃes desmamados. <i>Revista Brasileira De Zootecnia</i> , 2008, 37, 286-295.	0.3	7
83	CaracterizaÃo textural e estrutural de V2O5/TiO2 obtidos via sol-gel: comparaÃo entre secagem convencional e supercrÃtica. <i>Quimica Nova</i> , 2002, 25, 209-213.	0.3	6
84	Synthesis and characterization of TiO2 chemically modified by Pd(II) 2-aminothiazole complex for the photocatalytic degradation of phenol. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 195, 23-29.	2.0	6
85	Fracionamento de cobre em proteÃnas do plasma, mÃsculo e fÃgado de tilÃpia do Nilo. <i>Quimica Nova</i> , 2012, 35, 493-498.	0.3	6
86	Feed digestibility and productive performance of bullfrogs raised in cages and fed in different periods and high frequency. <i>Aquaculture</i> , 2014, 433, 1-5.	1.7	6
87	Metalloproteomic and differential expression in plasma in a rat model of type 1 diabetes. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 414-422.	3.6	6
88	Analytical procedure based on slurry sampling for determining selenium in organic vegetable samples by graphite furnace atomic absorption spectrometry. <i>European Food Research and Technology</i> , 2009, 229, 409-414.	1.6	5
89	Growth performance and metabolic response of Nile tilapia fed rations supplemented with autolized yeast and zinc. <i>Revista Brasileira De Zootecnia</i> , 2010, 39, 2560-2568.	0.3	5
90	Ultrasound-assisted extraction of Na and K from swine feed and its application in a digestibility assay: A green analytical procedure. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 1353-1358.	3.8	5

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91	Use of ultrasonic extraction in determining apparent digestibility in fish feed. <i>Journal of Food Measurement and Characterization</i> , 2015, 9, 599-603.	1.6	5
92	Feedlot diets containing different starch levels and additives change the cecal proteome involved in cattle's energy metabolism and inflammatory response. <i>Scientific Reports</i> , 2022, 12, 5691.	1.6	5
93	Levels of copper in Nile tilapia from Brazil. <i>Food Additives and Contaminants: Part B Surveillance</i> , 2011, 4, 238-243.	1.3	4
94	Zinc determination in samples fish by GFAAS using acid digestion in an ultrasound bath. <i>Journal of Food Measurement and Characterization</i> , 2016, 10, 113-118.	1.6	3
95	Organic zinc supplementation modifies the metalloproteome of royal jelly produced by <i>Apis mellifera</i> . <i>Journal of Apicultural Research</i> , 2023, 62, 590-597.	0.7	3
96	Investigation of Protein Biomarkers and Oxidative Stress in <i>Pirinampus pirinampu</i> Exposed to Mercury Species from the Madeira River, Amazon-Brazil. <i>Biological Trace Element Research</i> , 2022, 200, 1872-1882.	1.9	3
97	Supplementation with an Inorganic Zinc Source in the Metalloproteomic Profile of Royal Jelly in <i>Apis mellifera</i> L. <i>Biological Trace Element Research</i> , 2021, 199, 4308-4318.	1.9	3
98	Determination of copper in fish feed by graphite furnace atomic absorption spectrometry using slurry sampling. <i>Sensing and Instrumentation for Food Quality and Safety</i> , 2008, 2, 274-279.	1.5	2
99	Supplementation with an Inorganic Iron Source Modulates the Metalloproteomic Profile of the Royal Jelly Produced by <i>Apis mellifera</i> L. <i>Biological Trace Element Research</i> , 2020, 195, 648-657.	1.9	2
100	Iron determination by FAAS in fish feed and feces after ultrasound-assisted extraction. <i>Sensing and Instrumentation for Food Quality and Safety</i> , 2009, 3, 108-113.	1.5	1
101	The ultra-sonication of minerals in swine feed. <i>Journal of Animal Science and Biotechnology</i> , 2015, 6, 32.	2.1	1
102	Metallomics in Fish. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1055, 101-110.	0.8	1
103	Identification of Zinc Absorption Biomarkers in Muscle Tissue of Nile Tilapia Fed with Organic and Inorganic Sources of Zinc Using Metallomics Analysis. <i>Biological Trace Element Research</i> , 2020, 194, 259-272.	1.9	1
104	Metalloproteomic Profile Determination of Muscle Samples from Nile Tilapia (<i>Oreochromis niloticus</i>) Using AAS and ESI-MS/MS after 2D-PAGE Separation. <i>Journal of the Brazilian Chemical Society</i> , 2014, . .	0.6	1
105	Polishing of Water Treated by a Biological Process with Heterogeneous Photocatalysis. <i>Journal of Applied Sciences</i> , 2010, 10, 731-737.	0.1	0
106	Application of two-dimensional electrophoresis for plasma of normal and diabetic rats. <i>FASEB Journal</i> , 2013, 27, lb137.	0.2	0
107	Exigência dietética de fósforo na alimentação por fases da tilápia do Nilo. <i>Revista Principia</i> , 0, . .	0.1	0