Soares Hmvm

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5157085/publications.pdf

Version: 2024-02-01

91 papers	3,182 citations	172207 29 h-index	161609 54 g-index
91 all docs	91 docs citations	91 times ranked	3765 citing authors

#	Article	IF	Citations
1	Sediments as monitors of heavy metal contamination in the Ave river basin (Portugal): multivariate analysis of data. Environmental Pollution, 1999, 105, 311-323.	3.7	278
2	(Un)suitability of the use of pH buffers in biological, biochemical and environmental studies and their interaction with metal ions â€“ a review. RSC Advances, 2015, 5, 30989-31003.	1.7	249
3	Recent advances on hydrometallurgical recovery of critical and precious elements from end of life electronic wastes - a review. Critical Reviews in Environmental Science and Technology, 2019, 49, 212-275.	6.6	219
4	Biodegradable chelating agents for industrial, domestic, and agricultural applicationsâ€”a review. Environmental Science and Pollution Research, 2014, 21, 11893-11906.	2.7	147
5	Promising bacterial genera for agricultural practices: An insight on plant growth-promoting properties and microbial safety aspects. Science of the Total Environment, 2019, 682, 779-799.	3.9	146
6	Simultaneous electrochemical determination of arsenic, copper, lead and mercury in unpolluted fresh waters using a vibrating gold microwire electrode. Analytica Chimica Acta, 2011, 703, 1-7.	2.6	119
7	Bioremediation of industrial effluents containing heavy metals using brewing cells of Saccharomyces cerevisiae as a green technology: a review. Environmental Science and Pollution Research, 2012, 19, 1066-1083.	2.7	110
8	Removal of heavy metals using a brewerâ€™s yeast strain of Saccharomyces cerevisiae: The flocculation as a separation process. Bioresource Technology, 2008, 99, 2107-2115.	4.8	102
9	Removal of heavy metals using a brewer's yeast strain of Saccharomyces cerevisiae: Chemical speciation as a tool in the prediction and improving of treatment efficiency of real electroplating effluents. Journal of Hazardous Materials, 2010, 180, 347-353.	6.5	86
10	Comparison of five bacterial strains producing siderophores with ability to chelate iron under alkaline conditions. AMB Express, 2019, 9, 78.	1.4	84
11	Evaluation of n-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques. Analytica Chimica Acta, 1999, 394, 325-335.	2.6	77
12	Removal of heavy metals using a brewerâ€™s yeast strain ofSaccharomyces cerevisiae: advantages of using dead biomass. Journal of Applied Microbiology, 2009, 106, 1792-1804.	1.4	77
13	Toxic effects caused by heavy metals in the yeast Saccharomyces cerevisiae: a comparative study. Canadian Journal of Microbiology, 2003, 49, 336-343.	0.8	66
14	Selective leaching of molybdenum from spent hydrodesulphurisation catalysts using ultrasound and microwave methods. Hydrometallurgy, 2012, 129-130, 19-25.	1.8	64
15	Seasonal variations of heavy metals in sediments and aquatic mosses from the CÃ¡vado river basin (Portugal). Science of the Total Environment, 1994, 142, 143-156.	3.9	63
16	Determination of arsenic and antimony in seawater by voltammetric and chronopotentiometric stripping using a vibrated gold microwire electrode. Analytica Chimica Acta, 2012, 746, 53-62.	2.6	55
17	Siderophore Production by Bacillus megaterium: Effect of Growth Phase and Cultural Conditions. Applied Biochemistry and Biotechnology, 2014, 172, 549-560.	1.4	51
18	Selective leaching of Zn from spent alkaline batteries using environmentally friendly approaches. Waste Management, 2017, 60, 696-705.	3.7	43

#	Article	IF	Citations
19	Microwave-assisted selective leaching of nickel from spent hydrodesulphurization catalyst: A comparative study between sulphuric and organic acids. Hydrometallurgy, 2013, 140, 20-27.	1.8	39
20	Simultaneous Determination of Nickel and Cobalt Using a Solid Bismuth Vibrating Electrode by Adsorptive Cathodic Stripping Voltammetry. Electroanalysis, 2013, 25, 1247-1255.	1.5	38
21	A simple and nearly-closed cycle process for recycling copper with high purity from end life printed circuit boards. Separation and Purification Technology, 2016, 164, 19-27.	3.9	38
22	Multi-element determination of metals and metalloids in waters and wastewaters, at trace concentration level, using electroanalytical stripping methods with environmentally friendly mercury free-electrodes: A review. Talanta, 2017, 175, 53-68.	2.9	38
23	Toxic effects of nickel oxide (NiO) nanoparticles on the freshwater alga Pseudokirchneriella subcapitata. Aquatic Toxicology, 2018, 204, 80-90.	1.9	38
24	Title is missing!. Biotechnology Letters, 2002, 24, 663-666.	1.1	37
25	Recovery of molybdates from an alkaline leachate of spent hydrodesulphurisation catalyst â€“ proposal of a nearly-closed process. Journal of Cleaner Production, 2013, 52, 481-487.	4.6	37
26	Some effects of copper on the dinoflagellatesAmphidinium carteraeandProrocentrum micansin batch culture. European Journal of Phycology, 1994, 29, 253-260.	0.9	35
27	Removal of Chromium, Copper, and Nickel from an Electroplating Effluent Using a Flocculent Brewerâ€™s Yeast Strain of Saccharomyces cerevisiae. Water, Air, and Soil Pollution, 2010, 212, 199-204.	1.1	33
28	Toxicity effects of copper (II) on the marine dinoflagellateAmphidinium carterae: Influence of metal speciation. European Journal of Phycology, 1996, 31, 341-348.	0.9	31
29	Electrochemical investigations of the effect of N-substituted aminosulfonic acids with a piperazinic ring pH buffers on heavy metal processes which may have implications on speciation studies. Analytica Chimica Acta, 2000, 421, 103-111.	2.6	31
30	Viability and release of complexing compounds during accumulation of heavy metals by a brewer's yeast. Applied Microbiology and Biotechnology, 2002, 58, 836-841.	1.7	31
31	Selective recovery of copper, nickel and zinc from ashes produced from Saccharomyces cerevisiae contaminated biomass used in the treatment of real electroplating effluents. Journal of Hazardous Materials, 2010, 184, 357-363.	6.5	30
32	Simultaneous Determination of Copper(II), Lead(II) and Zinc(II) at Bismuth Film Electrode by Multivariate Calibration. Electroanalysis, 2011, 23, 1410-1417.	1.5	29
33	Harmful effects of metal(loid) oxide nanoparticles. Applied Microbiology and Biotechnology, 2021, 105, 1379-1394.	1.7	27
34	Separation and recovery of nickel, as a salt, from an EDTA leachate of spent hydrodesulphurization catalyst using precipitation methods. Chemical Engineering Science, 2015, 122, 130-137.	1.9	26
35	Nickel Oxide (NiO) Nanoparticles Induce Loss of Cell Viability in Yeast Mediated by Oxidative Stress. Chemical Research in Toxicology, 2018, 31, 658-665.	1.7	26
36	Cleanup of industrial effluents containing heavy metals: a new opportunity of valorising the biomass produced by brewing industry. Applied Microbiology and Biotechnology, 2013, 97, 6667-6675.	1.7	25

#	Article	IF	Citations
37	Study of the lability of copper(II)-fulvic acid complexes by ion selective electrodes and potentiometric stripping analysis. Analytica Chimica Acta, 1994, 293, 261-270.	2.6	24
38	Calcareous soil interactions of the iron(III) chelates of DPH and Azotochelin and its application on amending iron chlorosis in soybean (Glycine max). Science of the Total Environment, 2019, 647, 1586-1593.	3.9	23
39	A critical updated review of the hydrometallurgical routes for recycling zinc and manganese from spent zinc-based batteries. Waste Management, 2020, 113, 342-350.	3.7	23
40	Removal of heavy metals using a brewer's yeast strain of Saccharomyces cerevisiae: application to the treatment of real electroplating effluents containing multielements. Journal of Chemical Technology and Biotechnology, 2010, 85, 1353-1360.	1.6	22
41	Selective recovery of chromium, copper, nickel, and zinc from an acid solution using an environmentally friendly process. Environmental Science and Pollution Research, 2011, 18, 1279-1285.	2.7	21
42	Nickel oxide (NiO) nanoparticles disturb physiology and induce cell death in the yeast Saccharomyces cerevisiae. Applied Microbiology and Biotechnology, 2018, 102, 2827-2838.	1.7	18
43	An environmentally friendly closed loop process to recycle raw materials from spent alkaline batteries. Journal of Cleaner Production, 2019, 236, 117612.	4.6	18
44	Evaluation of two-step processes for the selective recovery of Mn from a rich Mn residue. Minerals Engineering, 2019, 130, 148-155.	1.8	18
45	Challenges in modelling and optimisation of stability constants in the study of metal complexes with monoprotonated ligands. Analytica Chimica Acta, 2003, 493, 105-119.	2.6	17
46	Evaluation of Heavy Metals Pollution Loadings in the Sediments of the Ave River Basin (Portugal). Soil and Sediment Contamination, 2009, 18, 603-618.	1.1	17
47	Voltammetric Quantification of Zn and Cu, Together with Hg and Pb, Based on a Gold Microwire Electrode, in a Wider Spectrum of Surface Waters. Electroanalysis, 2013, 25, 493-502.	1.5	17
48	Chronic exposure of the freshwater alga Pseudokirchneriella subcapitata to five oxide nanoparticles: Hazard assessment and cytotoxicity mechanisms. Aquatic Toxicology, 2019, 214, 105265.	1.9	17
49	Application of potentiometric stripping analysis for speciation of copper complexes with adsorbable ligands on the mercury electrode. Analytica Chimica Acta, 1995, 314, 241-249.	2.6	15
50	Influence of the ratio copper(II) to ligand concentrations and the nature of entering and leaving ligands on the lability of copper(II) complexes. Analytica Chimica Acta, 1996, 330, 273-281.	2.6	15
51	Recovery of metals from an acid leachate of spent hydrodesulphurization catalyst using molecular recognition technology. Chemical Engineering Science, 2015, 138, 353-362.	1.9	15
52	Study of the suitability of 2-(N-morpholino) ethanesulfonic acid pH buffer for heavy metals accumulation studies usingSaccharomyces cerevisiae. Chemical Speciation and Bioavailability, 2000, 12, 59-65.	2.0	14
53	A closed and zero-waste loop strategy to recycle the main raw materials (gold, copper and fiber glass) Tj ETQq1 1 0.784314 rgBT /Ove	6.6	14
54	Applicability of potentiometric stripping analysis to the speciation of leadâ€“humic acid complexes using potassium permanganate as oxidant. Analyst, The, 1998, 123, 1377-1382.	1.7	13

#	Article	IF	Citations
55	Relation between different metal pollution criteria in sediments and its contribution on assessing toxicity. Chemosphere, 2018, 208, 390-398.	4.2	13
56	Simple and near-zero-waste processing for recycling gold at a high purity level from waste printed circuit boards. Waste Management, 2021, 135, 90-97.	3.7	13
57	Potentiometric stripping analysis vs. differential pulse anodic stripping voltammetry for copper(II) analysis at relatively positive deposition potential. Analytica Chimica Acta, 1995, 303, 255-263.	2.6	12
58	Modulation of Siderophore Production by Pseudomonas fluorescens Through the Manipulation of the Culture Medium Composition. Applied Biochemistry and Biotechnology, 2021, 193, 607-618.	1.4	12
59	Recycling of aluminum and caustic soda solution from waste effluents generated during the cleaning of the extruder matrixes of the aluminum industry. Journal of Hazardous Materials, 2011, 187, 459-465.	6.5	11
60	Challenges in Modelling and Optimization of Stability Constants in the Study of Metal Complexes with Monoprotonated Ligands. Part II. Helvetica Chimica Acta, 2003, 86, 3288-3304.	1.0	10
61	Challenges in modelling and optimisation of stability constants in the study of Cuâ€“(TAPS)xâ€“(OH)y system by polarography. Talanta, 2007, 71, 1352-1363.	2.9	10
62	Pre-treatment of the paper pulp in the bleaching process using biodegradable chelating agents. International Journal of Environmental Science and Technology, 2015, 12, 975-982.	1.8	10
63	Microwave-assisted organic swelling promotes fast and efficient delamination of waste printed circuit boards. Waste Management, 2021, 126, 231-238.	3.7	10
64	Simultaneous Anodic Stripping Voltammetric Determination of Pb and Cd, Using a Vibrating Gold Microwire Electrode, Assisted by Chemometric Techniques. Electroanalysis, 2013, 25, 1895-1906.	1.5	9
65	Nickel Oxide Nanoparticles Trigger Caspase- and Mitochondria-Dependent Apoptosis in the Yeast Saccharomyces cerevisiae. Chemical Research in Toxicology, 2019, 32, 245-254.	1.7	9
66	Challenges in modelling and optimisation of stability constants in the study of metal complexes with monoprotonated ligands. Analytica Chimica Acta, 2004, 518, 117-126.	2.6	8
67	Complex Formation in the Region of Metal Hydrolysis and M(OH)2 Precipitation. A Glass Electrode Potentiometric and Polarographic Study of Cdâ€“(AMPSO)xâ€“(OH)y and Znâ€“(AMPSO)xâ€“(OH)y Systems. Electroanalysis, 2006, 18, 719-729.	1.5	8
68	Azotochelin and N-dihydroxy-N,Nâ€™-diisopropylhexanediamide as Fe sources to cucumber plants in hydroponic cultures. Emirates Journal of Food and Agriculture, 0, , 65.	1.0	8
69	Complexation of 1,3-Bis(tris(hydroxymethyl)methylamino)propane Systems Involving Divalent (Cobalt,) Tj ETQq1 1 0.784314 rgBT /O Data, 2012, 57, 87-92.	1.0	7
70	Alternative chelating agents: Evaluation of the ready biodegradability and complexation properties. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 344-354.	0.9	7
71	A multi-metal risk assessment strategy for natural freshwater ecosystems based on the additive inhibitory free metal ion concentration index. Environmental Pollution, 2017, 223, 517-523.	3.7	7
72	A simple, efficient and selective process for recycling La (and Al) from fluid cracking catalysts using an environmentally friendly strategy. Minerals Engineering, 2020, 156, 106375.	1.8	7

#	Article	IF	Citations
73	Electrochemical Processes of Cadmium, Copper, Lead, and Zinc in the Presence ofN-(2-Hydroxyethyl)piperazine-N â€²-3-Propanesulfonic Acid (HEPPS): Possible Implications in Speciation Studies. Electroanalysis, 2001, 13, 325-331.	1.5	5
74	Modelling of Pbâ€“(TAPS)xâ€“(OH)y system and refinement of stability constants in the region of lead hydrolysis and lead hydroxide precipitation. Talanta, 2007, 71, 1326-1332.	2.9	5
75	Application of potentiometric stripping analysis for speciation of copper complexes with a non-adsorbable ligand on a mercury electrode. Talanta, 1995, 42, 621-626.	2.9	4
76	Interpretation of nonâ€“Nernstian slopes in graphic analysis of data collected in pH range close to deprotonation of a ligandPart I. A glass electrode potentiometric and polarographic study of Cdâ€“(TAPSO)xâ€“(OH)y and Znâ€“(TAPSO)xâ€“(OH)y systems. Talanta, 2006, 68, 819-830.	2.9	4
77	Aqueous Equilibrium and Solution Structural Studies ofÂtheÂInteraction ofÂN,Nâ€²-bis(4-imidazolymethyl)etylenediamine withÂCa(II), Cd(II), Co(II), Cu(II), Mg(II), Mn(II), Ni(II), Pb(II) and Zn(II) Metal Ions. Journal of Solution Chemistry, 2010, 39, 1153-1167.	0.6	4
78	Cadmium(II), Lead(II), and Zinc(II) Ions Coordination ofN,Nâ€²-(S,S)Bis[1-carboxy-2-(imidazol-4yl)ethyl]ethylenediamine: Equilibrium and Structural Studies. Journal of Chemical & Engineering Data, 2011, 56, 398-405.	1.0	4
79	Impact of fluorides on the removal of heavy metals from an electroplating effluent using a flocculent brewerâ€™s yeast strain ofSaccharomyces cerevisiae. Chemical Speciation and Bioavailability, 2011, 23, 237-242.	2.0	4
80	Modelling and Optimization of Stability Constants of Cadmium or Zinc with Biological Buffers (DIPSO) Tj ETQq0 0 0 rgBT /Overlock 10 T 42, 1602-1619.	0.6	4
81	N,Nâ€²-Dihydroxy-N,Nâ€²-diisopropylhexanediamide, a siderophore analogue, as a possible iron chelating agent for hydroponic conditions: metal equilibrium studies. Journal of the Iranian Chemical Society, 2017, 14, 1079-1088.	1.2	4
82	Sequential separation of Ag, Al, Cu and Pb from a multi-metal leached solution using a zero waste technology. Separation Science and Technology, 2018, 53, 2961-2970.	1.3	4
83	Graphic Data Analysis and Complex Formation Curves as Modelling and Optimization Tools in Potentiometric and Voltammetric Speciation Studies of a Pbï£¿(TAPSO)xï£¿(OH)y System. Electroanalysis, 2005, 17, 1291-1301.	1.5	3
84	Complexation of Mâ€“(buffer) x â€“(OH) y Systems Involving Divalent Ions (Cobalt or Nickel) and Zwitterionic Biological Buffers (AMPSO, DIPSO, TAPS and TAPSO) in Aqueous Solution. Journal of Solution Chemistry, 2008, 37, 603-617.	0.6	3
85	Complexation Studies of N,â€‰Nâ€²-ethylenedi-L-cysteine withÂSome Metal Ions. Journal of Solution Chemistry, 2009, 38, 1504-1519.	0.6	3
86	Potentiometric and UVâˆ’Visible Spectroscopic Studies of Cobalt(II), Copper(II), and Nickel(II) Complexes with N,Nâ€²-(S,S)-Bis[1-carboxy-2-(imidazol-4-yl)ethyl]ethylenediamine. Journal of Chemical & Engineering Data, 2010, 55, 3410-3417.	1.0	3
87	Ethylenediamine-N,Nâ€™-diglutaric acid (EDDG) as a promising biodegradable chelator: Quantification, complexation and biodegradation. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 553-559.	0.9	3
88	Aqueous complexation studies of lead(II) and cadmium(II) with 1,3-bis(tris(hydroxymethyl)methylamino)propane pH buffer. Journal of Coordination Chemistry, 2014, 67, 3354-3370.	0.8	3
89	Graphic data analysis and complex formation curves as modeling and optimization tools for characterization of Cuâ€“(buffer)xâ€“(OH)y systems involving BTP or BES in aqueous solution. Journal of Coordination Chemistry, 2015, 68, 777-793.	0.8	3
90	Determination of the stability constants of Pbâ€“(DIPSO)xâ€“(OH)y and Pbâ€“(AMPSO)xâ€“(OH)y systems. Journal of Coordination Chemistry, 2013, 66, 3544-3560.	0.8	2

#	Article	IF	Citations
91	Electrochemical Determination of Methyltin Compounds. Mikrochimica Acta, 2002, 138, 43-48.	2.5	0