Isabel Villaescusa i Gil

List of Publications by Year
in descending order

85 papers	4,661 citations	101496 36 h-index	98753 67 g-index
85 all docs	85 docs citations	85 times ranked	5356 citing authors

#	Article	IF	Citations
1	Determination of sorbent point zero charge: usefulness in sorption studies. Environmental Chemistry Letters, 2009, 7, 79-84.	8.3	432
2	Removal of copper and nickel ions from aqueous solutions by grape stalks wastes. Water Research, 2004, 38, 992-1002.	5.3	394
3	Sorption of Pb(II), Ni(II), Cu(II) and Cd(II) from aqueous solution by olive stone waste. Separation and Purification Technology, 2006, 50, 132-140.	3.9	384
4	Removal of lead(II) and cadmium(II) from aqueous solutions using grape stalk waste. Journal of Hazardous Materials, 2006, 133, 203-211.	6.5	280
5	The chemical composition of exhausted coffee waste. Industrial Crops and Products, 2013, 50, 423-429.	2.5	220
6	A comparison of low-cost biosorbents and commercial sorbents for the removal of copper from aqueous media. Journal of Hazardous Materials, 2006, 137, 198-206.	6.5	163
7	Mechanism of paracetamol removal by vegetable wastes: The contribution of Ï€â€“Ï€ interactions, hydrogen bonding and hydrophobic effect. Desalination, 2011, 270, 135-142.	4.0	136
8	Evaluation of an activated carbon from olive stones used as an adsorbent for heavy metal removal from aqueous phases. Comptes Rendus Chimie, 2015, 18, 88-99.	0.2	136
9	Chromium sorption and Cr(VI) reduction to Cr(III) by grape stalks and yohimbe bark. Bioresource Technology, 2008, 99, 5030-5036.	4.8	116
10	Arsenic in drinking water: sources, occurrence and health effects (a review). Reviews in Environmental Science and Biotechnology, 2008, 7, 307-323.	3.9	111
11	Arsenic removal by a waste metal (hydr)oxide entrapped into calcium alginate beads. Journal of Hazardous Materials, 2009, 164, 533-541.	6.5	108
12	Agricultural biomasses as sorbents of some trace metals. Coordination Chemistry Reviews, 2008, 252, 1178-1188.	9.5	96
13	Heavy metals removal in aqueous environments using bark as a biosorbent. International Journal of Environmental Science and Technology, 2015, 12, 391-404.	1.8	92
14	Patterns of metals and arsenic poisoning in Vibrio fischeri bacteria. Chemosphere, 2005, 60, 43-48.	4.2	84
15	Heavy metal uptake from aqueous solution by cork and yohimbe bark wastes. Journal of Chemical Technology and Biotechnology, 2000, 75, 812-816.	1.6	83
16	Study on the toxicity of binary equitoxic mixtures of metals using the luminescent bacteria Vibrio fischeri as a biological target. Chemosphere, 2005, 58, 551-557.	4.2	79
17	Mercury(II) removal from aqueous solution by sorption onto alginate, pectate and polygalacturonate calcium gel beads. A kinetic and speciation based equilibrium study. Reactive and Functional Polymers, 2013, 73, 207-217.	2.0	73
18	Chemical equilibria in wastewaters during toxic metal ion removal by agricultural biomass. Coordination Chemistry Reviews, 2010, 254, 2181-2192.	9.5	68

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19	Effect of EDTA on divalent metal adsorption onto grape stalk and exhausted coffee wastes. Journal of Hazardous Materials, 2008, 152, 476-485.	6.5	65
20	Biosorption of Cr(VI) using low cost sorbents. Environmental Chemistry Letters, 2003, 1, 135-139.	8.3	60
21	Effect of pH on Arsenate and Arsenite Toxicity to Luminescent Bacteria (Vibrio fischeri). Archives of Environmental Contamination and Toxicology, 2004, 46, 176-182.	2.1	59
22	Modelling of breakthrough curves of single and binary mixtures of Cu(II), Cd(II), Ni(II) and Pb(II) sorption onto grape stalks waste. Chemical Engineering Journal, 2013, 217, 129-138.	6.6	56
23	Heavy metal uptake from aqueous solution by cork and yohimbe bark wastes. , 2000, 75, 812.		56
24	Effect of Cadmium(II), Chromium(VI), and Arsenic(V) on Long-Term Viability- and Growth-Inhibition Assays Using Vibrio fischeri Marine Bacteria. Archives of Environmental Contamination and Toxicology, 2005, 49, 299-306.	2.1	52
25	Sorption of toxic metal ions by solid sorbents: A predictive speciation approach based on complex formation constants in aqueous solution. Coordination Chemistry Reviews, 2012, 256, 212-221.	9.5	50
26	Chemical characterization of different granulometric fractions of grape stalks waste. Industrial Crops and Products, 2013, 50, 494-500.	2.5	48
27	Liquid-solid extraction of gold(III) from aqueous chloride solutions by macroporous resins impregnated with triisobutyl phosphine sulfide (Cyanex 471). Reactive & Functional Polymers, 1992, 17, 69-73.	0.8	46
28	Reâ€use of Exhausted Ground Coffee Waste for Cr(VI) Sorption. Separation Science and Technology, 2008, 43, 582-596.	1.3	46
29	Green Synthesis of Ag Nanoparticles Using Grape Stalk Waste Extract for the Modification of Screen-Printed Electrodes. Nanomaterials, 2018, 8, 946.	1.9	46
30	Kinetic and equilibrium study for cadmium and copper removal from aqueous solutions by sorption onto mixed alginate/pectin gel beads. Journal of Environmental Chemical Engineering, 2013, 1, 1252-1260.	3.3	44
31	A new technology for the treatment of chromium electroplating wastewater based on biosorption. Journal of Water Process Engineering, 2016, 11, 143-151.	2.6	44
32	Simultaneous adsorption behavior of heavy metals onto microporous olive stones activated carbon: analysis of metal interactions. Euro-Mediterranean Journal for Environmental Integration, 2017, 2, 1.	0.6	44
33	Cr(VI) reduction into Cr(III) as a mechanism to explain the low sensitivity of Vibrio fischeri bioassay to detect chromium pollution. Chemosphere, 2006, 65, 644-650.	4.2	43
34	Extraction of espresso coffee by using gradient of temperature. Effect on physicochemical and sensorial characteristics of espresso. Food Chemistry, 2017, 214, 622-630.	4.2	41
35	Anion-selective electrodes based on a gold(III)-triisobutylphosphine sulfide complex. Analyst, The, 1994, 119, 2421.	1.7	38
36	A proposal for the sustainable treatment and valorisation of olive mill wastes. Journal of Environmental Chemical Engineering, 2019, 7, 102803.	3.3	38

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37	Chromium(VI) toxicity to luminescent bacteria. Environmental Toxicology and Chemistry, 1997, 16, 871-874.	2.2	37
38	Chromium (VI) uptake by grape stalks wastes encapsulated in calcium alginate beads: equilibrium and kinetics studies. Chemical Speciation and Bioavailability, 2004, 16, 25-33.	2.0	36
39	Determination of the effective diffusion coefficient of Zn(II) on a macroporous resin XAD-2 impregnated with di-2-ethylhexyl phosphoric acid (DEHPA). Reactive and Functional Polymers, 2001, 48, 53-63.	2.0	35
40	Modelling synergistic sorption of Cr(VI), Cu(II) and Ni(II) onto exhausted coffee wastes from binary mixtures Cr(VI)â€“Cu(II) and Cr(VI)â€“Ni(II). Chemical Engineering Journal, 2013, 230, 396-405.	6.6	29
41	Effect of chromium speciation on its sorption mechanism onto grape stalks entrapped into alginate beads. Arabian Journal of Chemistry, 2017, 10, S1293-S1302.	2.3	29
42	Stress proteins induced by exposure to sublethal levels of heavy metals in sea bream (Sparus sarba) blood cells. Toxicology in Vitro, 2006, 20, 96-100.	1.1	28
43	Adverse effects of organic arsenical compounds towards Vibrio fischeri bacteria. Science of the Total Environment, 2007, 377, 207-213.	3.9	28
44	Liquid-liquid and solid-liquid extraction of gold by trioctylmethylammonium chloride (TOMAC1) dissolved in toluene and impregnated on amberlite XAD-2 resin. Hydrometallurgy, 1996, 41, 303-311.	1.8	27
45	Copper(II) and nickel(II) uptake from aqueous solutions by cork wastes: a NMR and potentiometric study. Polyhedron, 2002, 21, 1363-1367.	1.0	27
46	New insights into the interactions between cork chemical components and pesticides. The contribution of Ï€â€“Ï€ interactions, hydrogen bonding and hydrophobic effect. Chemosphere, 2015, 119, 863-870.	4.2	26
47	EXTRACTION OF GOLD(III) FROM HYDROCHLORIC ACID SOLUTIONS BY Tri-n-DODECYLAMMONIUM CHLORIDE IN TOLUENE. ESTIMATION OF THE INTERACTION COEFFICIENT BETWEEN AuCl4and H+.. Solvent Extraction and Ion Exchange, 1993, 11, 613-626.	0.8	24
48	Chromium sorption on grape stalks encapsulated in calcium alginate beads. Environmental Chemistry Letters, 2006, 4, 239-242.	8.3	24
49	Grape Stalks Waste as Low Cost Biosorbents: An Alternative for Metal Removal from Aqueous Solutions. Solvent Extraction and Ion Exchange, 2008, 26, 261-270.	0.8	23
50	Modeling of kinetics of Cr(VI) sorption onto grape stalk waste in a stirred batch reactor. Journal of Hazardous Materials, 2009, 170, 286-291.	6.5	23
51	Orthogonal Distance Regression: A Good Alternative to Least Squares for Modeling Sorption Data. Journal of Chemical & Engineering Data, 2012, 57, 490-499.	1.0	23
52	The Role of Exhausted Coffee Compounds on Metal Ions Sorption. Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	22
53	New approach in modeling Cr(VI) sorption onto biomass from metal binary mixtures solutions. Science of the Total Environment, 2016, 541, 101-108.	3.9	22
54	Solid-liquid extraction of Au(III) from aqueous chloride solutions by tri-n-dodecylammonium chloride impregnated in amberlite XAD-2 resin. Reactive and Functional Polymers, 1997, 32, 125-130.	2.0	21

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55	Determination of the effective diffusion coefficient for gold(III) on a macroporous resin XAD-2 impregnated with triisobutyl phosphine sulfide. Reactive and Functional Polymers, 1999, 41, 27-35.	2.0	21
56	Grape Stalks Wastes Encapsulated in Calcium Alginate Beads for Cr(VI) Removal from Aqueous Solutions. Separation Science and Technology, 2005, 40, 1013-1028.	1.3	20
57	Biosorbent encapsulation in calcium alginate: Effects of process variables on Cr(VI) removal from solutions. International Journal of Biological Macromolecules, 2015, 80, 260-270.	3.6	19
58	Evaluation of lead(II) and nickel(II) toxicity in NaCl and NaClO 4 solutions by using Microtox R bioassay. Fresenius' Journal of Analytical Chemistry, 1998, 361, 355-358.	1.5	17
59	REMOVAL OF CHROMIUM (VI) IN AQUEOUS ENVIRONMENTS USING CORK AND HEAT-TREATED CORK SAMPLES FROM QUERCUS CERRIS AND QUERCUS SUBER. BioResources, 2012, 7, .	0.5	17
60	Expansion of adsorption isotherms into equilibrium surface. Reactive and Functional Polymers, 2001, 48, 37-51.	2.0	16
61	Vegetable waste-based sensors for metal ion determination. Sensors and Actuators B: Chemical, 2007, 122, 187-194.	4.0	16
62	Effect of arsenic compounds on Vibrio fischeri light emission and butyrylcholinesterase activity. Environmental Chemistry Letters, 2007, 5, 115-119.	8.3	13
63	A model to describe Cr(VI) kinetics biosorption. Journal of Hazardous Materials, 2010, 175, 770-778.	6.5	10
64	Cellular Stress Induced in Cultured Human Cells by Exposure to Sludge Extracts from Water Treatment Plants. Ecotoxicology and Environmental Safety, 2002, 53, 134-140.	2.9	9
65	Single and binary adsorption of some heavy metal ions from aqueous solutions by activated carbon derived from olive stones. Desalination and Water Treatment, 0, , 1-7.	1.0	8
66	Adsorption of Cu(II), Ni(II), Pb(II) and Cd(II) from Ternary Mixtures: Modelling Competitive Breakthrough Curves and Assessment of Sensitivity. Environmental Processes, 2017, 4, 833-849.	1.7	8
67	Cellular Method for Evaluation of Noxiousness of Inorganic Pollutants in Industrial Wastes: Calculation of a Safety Index for Monitoring Sludge Discharge. Ecotoxicology and Environmental Safety, 2000, 45, 260-265.	2.9	7
68	Toxicity of Metalâ€“Ethylenediaminetetraacetic Acid Solution as a Function of Chemical Speciation: An Approach for Toxicity Assessment. Archives of Environmental Contamination and Toxicology, 2012, 63, 484-494.	2.1	7
69	The kinetics of copper sorption onto yohimbe bark wastes. International Journal of Environment and Pollution, 2008, 34, 215.	0.2	6
70	Binding interactions between suberin monomer components and pesticides. Science of the Total Environment, 2015, 527-528, 159-164.	3.9	6
71	Application of Anodic Stripping Voltammetry to assess sorption performance of an industrial waste entrapped in alginate beads to remove As(V). Arabian Journal of Chemistry, 2017, 10, S1014-S1021.	2.3	6
72	Valorisation of Lignocellulosic Biomass Wastes for the Removal of Metal Ions from Aqueous Streams: A Review. , 2017, , .		6

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73	Analytical limitations and error sources in complexation studies of Cu(II) with fulvic acids by potentiometric titrations. Reactive and Functional Polymers, 1996, 28, 159-165.	2.0	5
74	CHROMIUM(VI) TOXICITY TO LUMINESCENT BACTERIA. Environmental Toxicology and Chemistry, 1997, 16, 871.	2.2	5
75	Application of natural computation techniques to optimal design of flow injection systems. Analytica Chimica Acta, 1999, 402, 275-283.	2.6	4
76	Metal Ion Uptake from Aqueous Solution by Olive Stones: A Carbonâ€13 Solidâ€State Nuclear Magnetic Resonance and Potentiometric Study. Water Environment Research, 2007, 79, 2363-2367.	1.3	4
77	Use of Cyclic Voltammetry to Evaluate Sorption Properties of Cork Residues Towards Mn(II) in Waters. Journal of Solution Chemistry, 2008, 37, 477-485.	0.6	4
78	Comparative Evaluation of the Potential Noxiousness in Domestic Sludge Used in Agriculture and in Commercial Fertilizers. Ecotoxicology and Environmental Safety, 2000, 47, 292-297.	2.9	3
79	Study of Cr(VI) and Cd(II) Ions Toxicity Using the Microtox Bacterial Bioassay. , 2005, , 725-734.		2
80	New Insights into the Role of Chemical Components on Metal Ions Sorption by Grape Stalks Waste. Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	2
81	Assessment of vegetable wastes for basic violet 14 removal: role of sorbent surface chemistry and porosity. Desalination and Water Treatment, 2015, 53, 2278-2288.	1.0	2
82	The Thermodynamics of Heavy Metal Sorption onto Lignocellulosic Biomass. , 0, , .		2
83	Low Cost Materials for Metal Uptake from Aqueous Solutions. , 2005, , 251-258.		1
84	Cultured Human Cells as Biological Detectors for Assessing Environmental Toxicity. , 2005, , 735-741.		0
85	An automatic correction tool for inorganic chemical formulas. , 2010, , .		0