

# Isabel Villaescusa i Gil

## List of Publications by Year in descending order

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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	A proposal for the sustainable treatment and valorisation of olive mill wastes. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102803.	3.3	38
2	Green Synthesis of Ag Nanoparticles Using Grape Stalk Waste Extract for the Modification of Screen-Printed Electrodes. <i>Nanomaterials</i> , 2018, 8, 946.	1.9	46
3	Simultaneous adsorption behavior of heavy metals onto microporous olive stones activated carbon: analysis of metal interactions. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2017, 2, 1.	0.6	44
4	Adsorption of Cu(II), Ni(II), Pb(II) and Cd(II) from Ternary Mixtures: Modelling Competitive Breakthrough Curves and Assessment of Sensitivity. <i>Environmental Processes</i> , 2017, 4, 833-849.	1.7	8
5	Extraction of espresso coffee by using gradient of temperature. Effect on physicochemical and sensorial characteristics of espresso. <i>Food Chemistry</i> , 2017, 214, 622-630.	4.2	41
6	Application of Anodic Stripping Voltammetry to assess sorption performance of an industrial waste entrapped in alginate beads to remove As(V). <i>Arabian Journal of Chemistry</i> , 2017, 10, S1014-S1021.	2.3	6
7	Effect of chromium speciation on its sorption mechanism onto grape stalks entrapped into alginate beads. <i>Arabian Journal of Chemistry</i> , 2017, 10, S1293-S1302.	2.3	29
8	Valorisation of Lignocellulosic Biomass Wastes for the Removal of Metal Ions from Aqueous Streams: A Review. , 2017, , .		6
9	A new technology for the treatment of chromium electroplating wastewater based on biosorption. <i>Journal of Water Process Engineering</i> , 2016, 11, 143-151.	2.6	44
10	New approach in modeling Cr(VI) sorption onto biomass from metal binary mixtures solutions. <i>Science of the Total Environment</i> , 2016, 541, 101-108.	3.9	22
11	New Insights into the Role of Chemical Components on Metal Ions Sorption by Grape Stalks Waste. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	2
12	Binding interactions between suberin monomer components and pesticides. <i>Science of the Total Environment</i> , 2015, 527-528, 159-164.	3.9	6
13	Biosorbent encapsulation in calcium alginate: Effects of process variables on Cr(VI) removal from solutions. <i>International Journal of Biological Macromolecules</i> , 2015, 80, 260-270.	3.6	19
14	The Role of Exhausted Coffee Compounds on Metal Ions Sorption. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	22
15	Evaluation of an activated carbon from olive stones used as an adsorbent for heavy metal removal from aqueous phases. <i>Comptes Rendus Chimie</i> , 2015, 18, 88-99.	0.2	136
16	Heavy metals removal in aqueous environments using bark as a biosorbent. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 391-404.	1.8	92
17	New insights into the interactions between cork chemical components and pesticides. The contribution of π-π interactions, hydrogen bonding and hydrophobic effect. <i>Chemosphere</i> , 2015, 119, 863-870.	4.2	26
18	Assessment of vegetable wastes for basic violet 14 removal: role of sorbent surface chemistry and porosity. <i>Desalination and Water Treatment</i> , 2015, 53, 2278-2288.	1.0	2

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19	Modelling of breakthrough curves of single and binary mixtures of Cu(II), Cd(II), Ni(II) and Pb(II) sorption onto grape stalks waste. <i>Chemical Engineering Journal</i> , 2013, 217, 129-138.	6.6	56
20	Modelling synergistic sorption of Cr(VI), Cu(II) and Ni(II) onto exhausted coffee wastes from binary mixtures Cr(VI)–Cu(II) and Cr(VI)–Ni(II). <i>Chemical Engineering Journal</i> , 2013, 230, 396-405.	6.6	29
21	The chemical composition of exhausted coffee waste. <i>Industrial Crops and Products</i> , 2013, 50, 423-429.	2.5	220
22	Kinetic and equilibrium study for cadmium and copper removal from aqueous solutions by sorption onto mixed alginate/pectin gel beads. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 1252-1260.	3.3	44
23	Chemical characterization of different granulometric fractions of grape stalks waste. <i>Industrial Crops and Products</i> , 2013, 50, 494-500.	2.5	48
24	Mercury(II) removal from aqueous solution by sorption onto alginate, pectate and polygalacturonate calcium gel beads. A kinetic and speciation based equilibrium study. <i>Reactive and Functional Polymers</i> , 2013, 73, 207-217.	2.0	73
25	Orthogonal Distance Regression: A Good Alternative to Least Squares for Modeling Sorption Data. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 490-499.	1.0	23
26	Toxicity of Metal–Ethylenediaminetetraacetic Acid Solution as a Function of Chemical Speciation: An Approach for Toxicity Assessment. <i>Archives of Environmental Contamination and Toxicology</i> , 2012, 63, 484-494.	2.1	7
27	REMOVAL OF CHROMIUM (VI) IN AQUEOUS ENVIRONMENTS USING CORK AND HEAT-TREATED CORK SAMPLES FROM QUERCUS CERRIS AND QUERCUS SUBER. <i>BioResources</i> , 2012, 7, .	0.5	17
28	Sorption of toxic metal ions by solid sorbents: A predictive speciation approach based on complex formation constants in aqueous solution. <i>Coordination Chemistry Reviews</i> , 2012, 256, 212-221.	9.5	50
29	Mechanism of paracetamol removal by vegetable wastes: The contribution of $\pi$ – $\pi$ interactions, hydrogen bonding and hydrophobic effect. <i>Desalination</i> , 2011, 270, 135-142.	4.0	136
30	A model to describe Cr(VI) kinetics biosorption. <i>Journal of Hazardous Materials</i> , 2010, 175, 770-778.	6.5	10
31	Chemical equilibria in wastewaters during toxic metal ion removal by agricultural biomass. <i>Coordination Chemistry Reviews</i> , 2010, 254, 2181-2192.	9.5	68
32	An automatic correction tool for inorganic chemical formulas. , 2010, , .		0
33	Determination of sorbent point zero charge: usefulness in sorption studies. <i>Environmental Chemistry Letters</i> , 2009, 7, 79-84.	8.3	432
34	Arsenic removal by a waste metal (hydr)oxide entrapped into calcium alginate beads. <i>Journal of Hazardous Materials</i> , 2009, 164, 533-541.	6.5	108
35	Modeling of kinetics of Cr(VI) sorption onto grape stalk waste in a stirred batch reactor. <i>Journal of Hazardous Materials</i> , 2009, 170, 286-291.	6.5	23
36	Agricultural biomasses as sorbents of some trace metals. <i>Coordination Chemistry Reviews</i> , 2008, 252, 1178-1188.	9.5	96

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37	Arsenic in drinking water: sources, occurrence and health effects (a review). <i>Reviews in Environmental Science and Biotechnology</i> , 2008, 7, 307-323.	3.9	111
38	Use of Cyclic Voltammetry to Evaluate Sorption Properties of Cork Residues Towards Mn(II) in Waters. <i>Journal of Solution Chemistry</i> , 2008, 37, 477-485.	0.6	4
39	Effect of EDTA on divalent metal adsorption onto grape stalk and exhausted coffee wastes. <i>Journal of Hazardous Materials</i> , 2008, 152, 476-485.	6.5	65
40	Chromium sorption and Cr(VI) reduction to Cr(III) by grape stalks and yohimbe bark. <i>Bioresource Technology</i> , 2008, 99, 5030-5036.	4.8	116
41	Grape Stalks Waste as Low Cost Biosorbents: An Alternative for Metal Removal from Aqueous Solutions. <i>Solvent Extraction and Ion Exchange</i> , 2008, 26, 261-270.	0.8	23
42	Reuse of Exhausted Ground Coffee Waste for Cr(VI) Sorption. <i>Separation Science and Technology</i> , 2008, 43, 582-596.	1.3	46
43	The kinetics of copper sorption onto yohimbe bark wastes. <i>International Journal of Environment and Pollution</i> , 2008, 34, 215.	0.2	6
44	Metal Ion Uptake from Aqueous Solution by Olive Stones: A Carbon-13 Solid-State Nuclear Magnetic Resonance and Potentiometric Study. <i>Water Environment Research</i> , 2007, 79, 2363-2367.	1.3	4
45	Adverse effects of organic arsenical compounds towards <i>Vibrio fischeri</i> bacteria. <i>Science of the Total Environment</i> , 2007, 377, 207-213.	3.9	28
46	Effect of arsenic compounds on <i>Vibrio fischeri</i> light emission and butyrylcholinesterase activity. <i>Environmental Chemistry Letters</i> , 2007, 5, 115-119.	8.3	13
47	Vegetable waste-based sensors for metal ion determination. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 187-194.	4.0	16
48	Cr(VI) reduction into Cr(III) as a mechanism to explain the low sensitivity of <i>Vibrio fischeri</i> bioassay to detect chromium pollution. <i>Chemosphere</i> , 2006, 65, 644-650.	4.2	43
49	Stress proteins induced by exposure to sublethal levels of heavy metals in sea bream ( <i>Sparus sarba</i> ) blood cells. <i>Toxicology in Vitro</i> , 2006, 20, 96-100.	1.1	28
50	Sorption of Pb(II), Ni(II), Cu(II) and Cd(II) from aqueous solution by olive stone waste. <i>Separation and Purification Technology</i> , 2006, 50, 132-140.	3.9	384
51	Removal of lead(II) and cadmium(II) from aqueous solutions using grape stalk waste. <i>Journal of Hazardous Materials</i> , 2006, 133, 203-211.	6.5	280
52	A comparison of low-cost biosorbents and commercial sorbents for the removal of copper from aqueous media. <i>Journal of Hazardous Materials</i> , 2006, 137, 198-206.	6.5	163
53	Chromium sorption on grape stalks encapsulated in calcium alginate beads. <i>Environmental Chemistry Letters</i> , 2006, 4, 239-242.	8.3	24
54	Effect of Cadmium(II), Chromium(VI), and Arsenic(V) on Long-Term Viability- and Growth-Inhibition Assays Using <i>Vibrio fischeri</i> Marine Bacteria. <i>Archives of Environmental Contamination and Toxicology</i> , 2005, 49, 299-306.	2.1	52

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55	Low Cost Materials for Metal Uptake from Aqueous Solutions. , 2005, , 251-258.		1
56	Cultured Human Cells as Biological Detectors for Assessing Environmental Toxicity. , 2005, , 735-741.		0
57	Study of Cr(VI) and Cd(II) Ions Toxicity Using the Microtox Bacterial Bioassay. , 2005, , 725-734.		2
58	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
59	Study on the toxicity of binary equitoxic mixtures of metals using the luminescent bacteria <i>Vibrio fischeri</i> as a biological target. Chemosphere, 2005, 58, 551-557.	4.2	79
60	Patterns of metals and arsenic poisoning in <i>Vibrio fischeri</i> bacteria. Chemosphere, 2005, 60, 43-48.	4.2	84
61	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
62	Effect of pH on Arsenate and Arsenite Toxicity to Luminescent Bacteria ( <i>Vibrio fischeri</i> ). Archives of Environmental Contamination and Toxicology, 2004, 46, 176-182.	2.1	59
63	Removal of copper and nickel ions from aqueous solutions by grape stalks wastes. Water Research, 2004, 38, 992-1002.	5.3	394
64	Biosorption of Cr(VI) using low cost sorbents. Environmental Chemistry Letters, 2003, 1, 135-139.	8.3	60
65	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
66	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
67	Expansion of adsorption isotherms into equilibrium surface. Reactive and Functional Polymers, 2001, 48, 37-51.	2.0	16
68	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
69	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
70	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
71	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
72	Heavy metal uptake from aqueous solution by cork and yohimbe bark wastes. , 2000, 75, 812.		56

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73	Determination of the effective diffusion coefficient for gold(III) on a macroporous resin XAD-2 impregnated with triisobutyl phosphine sulfide. <i>Reactive and Functional Polymers</i> , 1999, 41, 27-35.	2.0	21
74	Application of natural computation techniques to optimal design of flow injection systems. <i>Analytica Chimica Acta</i> , 1999, 402, 275-283.	2.6	4
75	Evaluation of lead(II) and nickel(II) toxicity in NaCl and NaClO <sub>4</sub> solutions by using Microtox R bioassay. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 361, 355-358.	1.5	17
76	Solid-liquid extraction of Au(III) from aqueous chloride solutions by tri-n-dodecylammonium chloride impregnated in amberlite XAD-2 resin. <i>Reactive and Functional Polymers</i> , 1997, 32, 125-130.	2.0	21
77	Chromium(VI) toxicity to luminescent bacteria. <i>Environmental Toxicology and Chemistry</i> , 1997, 16, 871-874.	2.2	37
78	CHROMIUM(VI) TOXICITY TO LUMINESCENT BACTERIA. <i>Environmental Toxicology and Chemistry</i> , 1997, 16, 871.	2.2	5
79	Analytical limitations and error sources in complexation studies of Cu(II) with fulvic acids by potentiometric titrations. <i>Reactive and Functional Polymers</i> , 1996, 28, 159-165.	2.0	5
80	Liquid-liquid and solid-liquid extraction of gold by trioctylmethylammonium chloride (TOMAC1) dissolved in toluene and impregnated on amberlite XAD-2 resin. <i>Hydrometallurgy</i> , 1996, 41, 303-311.	1.8	27
81	Anion-selective electrodes based on a gold(III)-triisobutylphosphine sulfide complex. <i>Analyst</i> , The, 1994, 119, 2421.	1.7	38
82	EXTRACTION OF GOLD(III) FROM HYDROCHLORIC ACID SOLUTIONS BY Tri-n-DODECYLAMMONIUM CHLORIDE IN TOLUENE. ESTIMATION OF THE INTERACTION COEFFICIENT BETWEEN AuCl <sub>4</sub> <sup>-</sup> and H <sup>+</sup> . <i>Solvent Extraction and Ion Exchange</i> , 1993, 11, 613-626.	0.8	24
83	Liquid-solid extraction of gold(III) from aqueous chloride solutions by macroporous resins impregnated with triisobutyl phosphine sulfide (Cyanex 471). <i>Reactive &amp; Functional Polymers</i> , 1992, 17, 69-73.	0.8	46
84	Single and binary adsorption of some heavy metal ions from aqueous solutions by activated carbon derived from olive stones. <i>Desalination and Water Treatment</i> , 0, , 1-7.	1.0	8
85	The Thermodynamics of Heavy Metal Sorption onto Lignocellulosic Biomass. , 0, , .		2