

Roberto Herrero

List of Publications by Year in descending order

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63
papers

2,692
citations

172207

29
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182168

51
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63
all docs

63
docs citations

63
times ranked

2638
citing authors

#	ARTICLE	IF	CITATIONS
1	Green development of iron doped silica gel materials for chromium decontamination. Journal of Environmental Chemical Engineering, 2022, 10, 108258.	3.3	3
2	Design, synthesis and HR ^{13}C MAS NMR characterization of molecular imprinted polymers with emerging contaminants templates. Separation and Purification Technology, 2021, 257, 117860.	3.9	6
3	Utilization of seaweed waste: Biosorption of toxic compounds onto invasive seaweed and seaweed wastes. , 2020, , 613-639.		1
4	Synthesis of magnetic green nanoparticle ^{13}C Molecular imprinted polymers with emerging contaminants templates. Journal of Environmental Chemical Engineering, 2020, 8, 103889.	3.3	16
5	Biosorption of chemical species by Sargassum algal biomass: Equilibrium data, part I. , 2020, , 675-696.		3
6	The proton binding properties of biosorbents. Environmental Chemistry Letters, 2019, 17, 1281-1298.	8.3	6
7	A Systematic Analysis and Review of the Fundamental Acid-Base Properties of Biosorbents. Environmental Chemistry for A Sustainable World, 2018, , 73-133.	0.3	4
8	New polymeric/inorganic hybrid sorbents based on red mud and nanosized magnetite for large scale applications in As(V) removal. Chemical Engineering Journal, 2017, 311, 117-125.	6.6	32
9	Non-Metabolic Uptake of Al^{3+} by Dead Leaves of <i>Rubus ulmifolius</i> : Comparison With Metabolic Bioaccumulation Data. Clean - Soil, Air, Water, 2016, 44, 154-161.	0.7	0
10	Green synthesis of iron oxide nanoparticles. Development of magnetic hybrid materials for efficient As(V) removal. Chemical Engineering Journal, 2016, 301, 83-91.	6.6	204
11	Achieving sub-10 ppb arsenic levels with iron based biomass-silica gel composites. Chemical Engineering Journal, 2015, 279, 1-8.	6.6	15
12	Interaction of heavy metals with Ca-pretreated Sargassum muticum algal biomass: Characterization as a cation exchange process. Chemical Engineering Journal, 2015, 264, 181-187.	6.6	39
13	Surface modifications of Sargassum muticum algal biomass for mercury removal: A physicochemical study in batch and continuous flow conditions. Chemical Engineering Journal, 2013, 229, 378-387.	6.6	21
14	Experimental evidences for a new model in the description of the adsorption-coupled reduction of Cr(VI) by protonated banana skin. Bioresource Technology, 2013, 139, 181-189.	4.8	42
15	A Physicochemical Study of $\text{Al}^{(+3)}$ Interactions with Edible Seaweed Biomass in Acidic Waters. Journal of Food Science, 2012, 77, C987-93.	1.5	7
16	Cr(VI) removal from synthetic and real wastewaters: The use of the invasive biomass Sargassum muticum in batch and column experiments. Journal of Industrial and Engineering Chemistry, 2012, 18, 1370-1376.	2.9	24
17	Full description of copper uptake by algal biomass combining an equilibrium NICA model with a kinetic intraparticle diffusion driving force approach. Bioresource Technology, 2011, 102, 2990-2997.	4.8	18
18	Adsorptive behaviour of mercury on algal biomass: Competition with divalent cations and organic compounds. Journal of Hazardous Materials, 2011, 192, 284-91.	6.5	36

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19	A dynamic proof of mercury elimination from solution through a combined sorption–reduction process. <i>Bioresource Technology</i> , 2010, 101, 8969-8974.	4.8	36
20	Aluminium removal from wastewater by refused beach cast seaweed. Equilibrium and dynamic studies. <i>Journal of Hazardous Materials</i> , 2010, 178, 861-866.	6.5	31
21	Reduction of Cr (VI) levels in solution using bracken fern biomass: Batch and column studies. <i>Chemical Engineering Journal</i> , 2010, 165, 517-523.	6.6	30
22	Adsorption of Methylene Blue on Chemically Modified Algal Biomass: Equilibrium, Dynamic, and Surface Data. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 5707-5714.	1.0	46
23	Mercury removal: a physicochemical study of metal interaction with natural materials. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1688-1696.	1.6	22
24	Physicochemical characterisation of the ubiquitous bracken fern as useful biomaterial for preconcentration of heavy metals. <i>Bioresource Technology</i> , 2009, 100, 1561-1567.	4.8	15
25	Interaction of mercury with chitin: A physicochemical study of metal binding by a natural biopolymer. <i>Reactive and Functional Polymers</i> , 2008, 68, 1609-1618.	2.0	29
26	The efficiency of the red alga <i>Mastocarpus stellatus</i> for remediation of cadmium pollution. <i>Bioresource Technology</i> , 2008, 99, 4138-4146.	4.8	56
27	Cr(III) binding by surface polymers in natural biomass: the role of carboxylic groups. <i>Environmental Chemistry</i> , 2008, 5, 355.	0.7	36
28	Waste spider crab shell and derived chitin as low-cost materials for cadmium and lead removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 39-46.	1.6	39
29	Thermodynamic and Kinetic Aspects on the Biosorption of Cadmium by Low Cost Materials: A Review. <i>Environmental Chemistry</i> , 2006, 3, 400.	0.7	70
30	The marine macroalga <i>Cystoseira baccata</i> as biosorbent for cadmium(II) and lead(II) removal: Kinetic and equilibrium studies. <i>Environmental Pollution</i> , 2006, 142, 264-273.	3.7	325
31	Interactions of cadmium(II) and protons with dead biomass of marine algae <i>Fucus</i> sp.. <i>Marine Chemistry</i> , 2006, 99, 106-116.	0.9	73
32	The use of protonated <i>Sargassum muticum</i> as biosorbent for cadmium removal in a fixed-bed column. <i>Journal of Hazardous Materials</i> , 2006, 137, 244-253.	6.5	83
33	Batch desorption studies and multiple sorption–regeneration cycles in a fixed-bed column for Cd(II) elimination by protonated <i>Sargassum muticum</i> . <i>Journal of Hazardous Materials</i> , 2006, 137, 1649-1655.	6.5	64
34	Biosorption of phenolic compounds by the brown alga <i>Sargassum muticum</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1093-1099.	1.6	72
35	Biosorption of cadmium by the protonated macroalga <i>Sargassum muticum</i> : Binding analysis with a nonideal, competitive, and thermodynamically consistent adsorption (NICCA) model. <i>Journal of Colloid and Interface Science</i> , 2005, 289, 352-358.	5.0	34
36	Biosorption of cadmium by biomass of brown marine macroalgae. <i>Bioresource Technology</i> , 2005, 96, 1796-1803.	4.8	177

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37	Removal of Methylene Blue from aqueous solutions using as biosorbent <i>Sargassum muticum</i> : an invasive macroalga in Europe. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 291-298.	1.6	111
38	Removal of inorganic mercury from aqueous solutions by biomass of the marine macroalga <i>Cytoseira baccata</i> . <i>Water Research</i> , 2005, 39, 3199-3210.	5.3	130
39	Biosorption of Cadmium by <i>Fucus spiralis</i> . <i>Environmental Chemistry</i> , 2004, 1, 180.	0.7	116
40	Physicochemical studies of Cadmium(II) biosorption by the invasive alga in Europe, <i>Sargassum muticum</i> . <i>Biotechnology and Bioengineering</i> , 2004, 88, 237-247.	1.7	118
41	Gibbs-Donnan and specific-ion interaction theory descriptions of the effect of ionic strength on proton dissociation of alginate. <i>Journal of Electroanalytical Chemistry</i> , 2004, 564, 223-230.	1.9	39
42	Surface charge and permeable gel descriptions of the ionic strength influence on proton binding to seaweed biomass. <i>Chemical Speciation and Bioavailability</i> , 2004, 16, 61-69.	2.0	18
43	Acid-base equilibria of phthalic acid in saline media: ion association from Pitzer equations. <i>Talanta</i> , 2003, 60, 93-101.	2.9	14
44	Acid-Base Properties of Brown Seaweed Biomass Considered As a Donnan Gel. A Model Reflecting Electrostatic Effects and Chemical Heterogeneity. <i>Environmental Science & Technology</i> , 2003, 37, 5159-5167.	4.6	48
45	Electroreduction of Diphenyl Disulfide on a Self-Assembled Lipid Monolayer on Mercury. <i>Langmuir</i> , 2002, 18, 9377-9382.	1.6	1
46	Hybrid polar compounds produce a positive shift in the surface dipole potential of self-assembled phospholipid monolayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000, 1466, 278-288.	1.4	13
47	Dipole Potentials of Monolayers of Phosphatidylcholine, Phosphatidylserine, and Phosphatidic Acid on Mercury. <i>Langmuir</i> , 2000, 16, 7694-7700.	1.6	62
48	Effect of Ionic Strength on the Electrochemical Behavior of Glutathione on a Phospholipid Self-Assembled Monolayer on Mercury. <i>Langmuir</i> , 2000, 16, 5148-5153.	1.6	16
49	Electron and proton transferring properties of vitamin K1 across a self-assembled phospholipid monolayer. <i>Journal of Electroanalytical Chemistry</i> , 1998, 445, 71-80.	1.9	15
50	Alkanethiol monolayers and alkanethiol phospholipid bilayers supported by mercury: an electrochemical characterization. <i>Journal of Electroanalytical Chemistry</i> , 1998, 452, 33-42.	1.9	48
51	Effect of ionic strength on the formal potential of the glass electrode in various saline media. <i>Talanta</i> , 1998, 46, 1469-1477.	2.9	28
52	Kinetics of electron and proton transfer to ubiquinone-10 and from ubiquinol-10 in a self-assembled phosphatidylcholine monolayer. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998, 1364, 373-384.	0.5	51
53	Trend and energetics of pK^* s. ionic strength for o-chlorobenzoic, m-nitrobenzoic and benzoic acids in aqueous KNO_3 solutions at 298 K. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 3093-3096.	1.7	4
54	Protonation Constants of Valine, Serine, and β -Alanine in Artificial Seawater at 25 $^{\circ}C$. <i>Journal of Chemical & Engineering Data</i> , 1998, 43, 393-395.	1.0	10

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55	Electroreduction of Diheptylviologen in a Self-Assembled Phospholipid Monolayer on Mercury and its Role as an Electron Transfer Mediator. <i>Israel Journal of Chemistry</i> , 1997, 37, 247-257.	1.0	4
56	Acid-Base Equilibria of Cysteine in Artificial Sea Water: Effect of Ionic Strength on the Basis of Specific Interaction Theory. <i>Journal of Chemical Research Synopses</i> , 1997, , 222-223.	0.3	1
57	Electroreduction of Dioctadecylviologen in a Self-Assembled Phospholipid Monolayer on Mercury and Its Role as an Electron Mediator. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2815-2823.	1.2	16
58	Adsorption and reduction kinetics of safranin T in self-assembled phospholipid monolayers deposited on mercury. <i>Journal of Electroanalytical Chemistry</i> , 1997, 425, 87-95.	1.9	12
59	Adsorption of Tetraphenylphosphonium and Tetraphenylborate in Self-Assembled Phosphatidylcholine and Phosphatidylserine Monolayers Deposited on Mercury Electrodes. <i>The Journal of Physical Chemistry</i> , 1995, 99, 9940-9951.	2.9	39
60	Protonation Constants of Amino Acids in Artificial Seawater at 25.degree.C. <i>Journal of Chemical & Engineering Data</i> , 1995, 40, 117-119.	1.0	12
61	Protonation constants of .alpha.-alanine, .gamma.-aminobutyric acid, and .epsilon.-aminocaproic acid. <i>Journal of Chemical & Engineering Data</i> , 1993, 38, 531-533.	1.0	19
62	Pitzer and Thermodynamic Parameters of Triethanolamine and Glycine in Aqueous Saline Solutions. <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 1269-1278.	1.0	15
63	The protonation constant of triethanolamine in KBr and KNO ₃ solutions at 25;1/2C. <i>Journal of Solution Chemistry</i> , 1992, 21, 1185-1193.	0.6	17