

Konstantinos A Matis

List of Publications by Year in descending order

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121
papers

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57758

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123
docs citations

123
times ranked

6687
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoadsorbents for pollutants removal: A review. <i>Journal of Molecular Liquids</i> , 2015, 203, 159-168.	4.9	327
2	Graphene oxide and its application as an adsorbent for wastewater treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 196-205.	3.2	322
3	Hybrid flotation membrane filtration process for the removal of heavy metal ions from wastewater. <i>Water Research</i> , 2003, 37, 4018-4026.	11.3	305
4	Removal of As(V) from wastewaters by chemically modified fungal biomass. <i>Water Research</i> , 2003, 37, 4544-4552.	11.3	267
5	Optimization of Hydrothermal Pretreatment of Lignocellulosic Biomass in the Bioethanol Production Process. <i>ChemSusChem</i> , 2013, 6, 110-122.	6.8	264
6	Equilibrium and kinetic modeling of chromium(VI) biosorption by <i>Aeromonas caviae</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 242, 93-104.	4.7	234
7	Activated carbons produced by pyrolysis of waste potato peels: Cobalt ions removal by adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 490, 74-83.	4.7	178
8	New approaches on the removal of pharmaceuticals from wastewaters with adsorbent materials. <i>Journal of Molecular Liquids</i> , 2015, 209, 87-93.	4.9	172
9	The Change from Past to Future for Adsorbent Materials in Treatment of Dyeing Wastewaters. <i>Materials</i> , 2013, 6, 5131-5158.	2.9	156
10	Optimization of Hydrothermal Pretreatment of Hardwood and Softwood Lignocellulosic Residues for Selective Hemicellulose Recovery and Improved Cellulose Enzymatic Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4529-4544.	6.7	151
11	Sorption of reactive dyes from aqueous solutions by ordered hexagonal and disordered mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 257-267.	4.4	141
12	Removal of hexavalent chromium anions from solutions by pyrite fines. <i>Water Research</i> , 1995, 29, 1755-1760.	11.3	138
13	Adsorptive removal of arsenites by a nanocrystalline hybrid surfactant akaganeite sorbent. <i>Journal of Colloid and Interface Science</i> , 2006, 302, 458-466.	9.4	113
14	Removal of zinc ion from water by sorption onto iron-based nanoadsorbent. <i>Journal of Hazardous Materials</i> , 2007, 141, 176-184.	12.4	109
15	Various flotation techniques for metal ions removal. <i>Journal of Molecular Liquids</i> , 2017, 225, 260-264.	4.9	104
16	Metal ion separation and recovery from environmental sources using various flotation and sorption techniques. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 335-344.	3.2	103
17	Activated carbons for the removal of heavy metal ions: A systematic review of recent literature focused on lead and arsenic ions. <i>Open Chemistry</i> , 2015, 13, .	1.9	102
18	Akaganeite-type β -FeO(OH) nanocrystals: preparation and characterization. <i>Microporous and Mesoporous Materials</i> , 2001, 42, 49-57.	4.4	101

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19	Flotation removal of As(V) onto goethite. <i>Environmental Pollution</i> , 1997, 97, 239-245.	7.5	95
20	Adsorption of Remazol Red 3BS from aqueous solutions using APTES- and cyclodextrin-modified HMS-type mesoporous silicas. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 346, 83-90.	4.7	93
21	Recovery of Metals by Ion Flotation from Dilute Aqueous Solutions. <i>Separation and Purification Reviews</i> , 1991, 20, 1-48.	0.8	92
22	Electroflotation process: A review. <i>Journal of Molecular Liquids</i> , 2016, 220, 657-664.	4.9	92
23	Flotation in Water and Wastewater Treatment. <i>Processes</i> , 2018, 6, 116.	2.8	92
24	The removal and recovery of cadmium from dilute aqueous solutions by biosorption and electrolysis at laboratory scale. <i>Water Research</i> , 1998, 32, 400-406.	11.3	89
25	The use of biosurfactants in flotation: application for the removal of metal ions. <i>Minerals Engineering</i> , 2003, 16, 1231-1236.	4.3	81
26	Copper removal from effluents by various separation techniques. <i>Hydrometallurgy</i> , 2004, 74, 149-156.	4.3	81
27	Akaganeite and goethite-type nanocrystals: synthesis and characterization. <i>Microporous and Mesoporous Materials</i> , 2003, 59, 35-42.	4.4	72
28	Removal of metal ions from dilute aqueous solutions: A comparative study of inorganic sorbent materials. <i>Chemosphere</i> , 1999, 39, 881-892.	8.2	71
29	Enhancing Lignocellulosic Biomass Hydrolysis by Hydrothermal Pretreatment, Extraction of Surface Lignin, Wet Milling and Production of Cellulolytic Enzymes. <i>ChemSusChem</i> , 2019, 12, 1179-1195.	6.8	70
30	Removal of toxic metals from aqueous mixtures. Part 1: Biosorption. <i>Journal of Chemical Technology and Biotechnology</i> , 1999, 74, 429-436.	3.2	64
31	Separation of fines by flotation techniques. <i>Separation and Purification Technology</i> , 1993, 3, 76-90.	0.7	63
32	Modelling the sorption of metals from aqueous solutions on goethite fixed-beds. <i>Environmental Pollution</i> , 2001, 113, 121-128.	7.5	63
33	Modeling the sorption of metal ions from aqueous solution by iron-based adsorbents. <i>Journal of Hazardous Materials</i> , 2009, 172, 550-558.	12.4	62
34	Flotation of cadmium-loaded biomass. <i>Biotechnology and Bioengineering</i> , 1994, 44, 354-360.	3.3	57
35	Removal of metal ions from dilute solutions by sorptive flotation. <i>Critical Reviews in Environmental Science and Technology</i> , 1997, 27, 195-235.	12.8	57
36	Metals removal from aqueous solution by iron-based bonding agents. <i>Environmental Science and Pollution Research</i> , 2004, 11, 18-21.	5.3	55

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37	Bubble-particle collision interaction in flotation systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 473, 95-103.	4.7	55
38	Alternative Flotation Techniques for Wastewater Treatment: Focus on Electroflotation. <i>Separation Science and Technology</i> , 2010, 45, 2465-2474.	2.5	53
39	Biosorption of Metals from Dilute Aqueous Solutions. <i>Separation and Purification Reviews</i> , 1997, 26, 255-295.	0.8	52
40	Removal of toxic metal ions from aqueous systems by biosorptive flotation. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 958-964.	3.2	50
41	The application of sorptive flotation for the removal of metal ions. <i>Desalination</i> , 2004, 162, 159-168.	8.2	50
42	A fundamental rotating disk study of gold dissolution in iodine-iodide solutions. <i>Hydrometallurgy</i> , 1993, 34, 49-64.	4.3	48
43	A perspective on flotation: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 615-623.	3.2	47
44	Diffusion Kinetic Study of Chromium(VI) Biosorption by <i>Aeromonas caviae</i> . <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 1748-1755.	3.7	46
45	Study of flotation conditions for cadmium(II) removal from aqueous solutions. <i>Chemical Engineering Research and Design</i> , 2015, 94, 203-211.	5.6	46
46	Metal biosorption by PAN-immobilized fungal biomass in simulated wastewaters. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 212, 185-195.	4.7	44
47	Diffusion kinetic study of cadmium(II) biosorption by <i>Aeromonas caviae</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 711-719.	3.2	44
48	Application of flotation for the separation of metal-loaded zeolites. <i>Chemosphere</i> , 2004, 55, 65-72.	8.2	42
49	A hybrid flotation-microfiltration process for metal ions recovery. <i>Journal of Membrane Science</i> , 2005, 247, 29-35.	8.2	39
50	Adsorption of reactive dyes from aqueous solutions by layered double hydroxides. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 575-582.	3.2	39
51	CFD Model for the Design of Large Scale Flotation Tanks for Water and Wastewater Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6590-6599.	3.7	36
52	The Flotation Process Can Go Green. <i>Processes</i> , 2019, 7, 138.	2.8	36
53	Anionic flotation of magnesium carbonates by modifiers. <i>International Journal of Mineral Processing</i> , 1989, 25, 261-274.	2.6	35
54	A study and modelling of liquid-phase mixing in a flotation column. <i>International Journal of Mineral Processing</i> , 1989, 26, 1-16.	2.6	35

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55	Removal of phosphates from water by a hybrid flotation-membrane filtration cell. <i>Desalination</i> , 2006, 198, 198-207.	8.2	34
56	Application of flotation as a pretreatment process during desalination. <i>Desalination</i> , 2008, 222, 1-8.	8.2	32
57	Separation of germanium and arsenic from solutions by flotation. <i>International Journal of Mineral Processing</i> , 1987, 21, 83-92.	2.6	31
58	Water Separation Processes and Sustainability. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 421-430.	3.7	31
59	Air sparging during the solid/liquid separation by microfiltration: application of flotation. <i>Separation and Purification Technology</i> , 2004, 40, 1-7.	7.9	29
60	Processing of magnesium carbonate fines by dissolved-air flotation. <i>Colloids and Surfaces</i> , 1988, 29, 191-203.	0.9	28
61	A hybrid MF process based on flotation. <i>Journal of Membrane Science</i> , 2004, 228, 83-88.	8.2	27
62	Foam/Froth Flotation. <i>Separation and Purification Reviews</i> , 1991, 20, 163-198.	0.8	26
63	Sorptive flotation for metal ions recovery. <i>International Journal of Mineral Processing</i> , 2003, 70, 99-108.	2.6	26
64	Parameters influencing flotation in removal of metal ions. <i>International Journal of Environmental Studies</i> , 1990, 35, 183-196.	1.6	25
65	Modeling local flotation frequency in a turbulent flow field. <i>Advances in Colloid and Interface Science</i> , 2006, 122, 79-91.	14.7	24
66	Adsorption of Pb ²⁺ Using Mesoporous Activated Carbon and its Effects on Surface Modifications. <i>Adsorption Science and Technology</i> , 2012, 30, 627-645.	3.2	24
67	Technologies of winery wastewater treatment: a critical approach. <i>Desalination and Water Treatment</i> , 2016, 57, 3372-3386.	1.0	24
68	Removal of As(V) Ions from Solution by Akaganeite bgr-FeO(OH) Nanocrystals. <i>Journal of Mining Science</i> , 2003, 39, 287-296.	0.6	23
69	New Biosorbent Materials: Selectivity and Bioengineering Insights. <i>Processes</i> , 2014, 2, 419-440.	2.8	22
70	Heavy Metals Removal by Biosorption and Flotation. <i>Water, Air and Soil Pollution</i> , 2003, 3, 143-151.	0.8	21
71	A hybrid flotation-microfiltration cell for solid/liquid separation: operational characteristics. <i>Desalination</i> , 2006, 194, 135-145.	8.2	21
72	Impregnation of activated carbon by iron oxyhydroxide and its effect on arsenate removal. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1058-1066.	3.2	21

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73	Cadmium(II) Biosorption by <i>Aeromonas caviae</i> : Kinetic Modeling. Separation Science and Technology, 2005, 40, 1293-1311.	2.5	19
74	Metal recovery from a copper mine effluent by a hybrid process. Chemical Engineering and Processing: Process Intensification, 2008, 47, 596-602.	3.6	19
75	Flotation of powdered activated carbon with adsorbed gold(I)-thiourea complex. Hydrometallurgy, 1994, 36, 39-51.	4.3	18
76	FLOTATION TECHNIQUES IN WATER TECHNOLOGY FOR METALS RECOVERY: THE IMPACT OF SPECIATION. Separation Science and Technology, 2001, 36, 3777-3800.	2.5	18
77	Methods of arsenic wastes recycling: Focus on flotation. Journal of Molecular Liquids, 2016, 214, 37-45.	4.9	18
78	From Microbubbles to Nanobubbles: Effect on Flotation. Processes, 2021, 9, 1287.	2.8	16
79	A statistical approach to precipitate flotation of. International Journal of Mineral Processing, 1988, 24, 203-216.	2.6	15
80	Processing a bulk pyrite concentrate by flotation reagents. Minerals Engineering, 1992, 5, 331-342.	4.3	15
81	Sorption of Arsenic Oxyanions from Aqueous Solution on Goethite: a Study of Process Modelling. Mikrochimica Acta, 2005, 151, 269-275.	5.0	14
82	Recovery of gold from thiourea solutions by flotation. Hydrometallurgy, 1993, 34, 79-90.	4.3	13
83	Flotation as a bioseparation process for fungi removal. Biotechnology Letters, 1993, 7, 867-872.	0.5	13
84	Hydrodynamic aspects of flotation separation. Open Chemistry, 2016, 14, 132-139.	1.9	12
85	Two-phase simulations of an off-nominally operating dissolved-air flotation tank. International Journal of Environment and Pollution, 2007, 30, 213.	0.2	11
86	A hybrid flotation-microfiltration cell for effluent treatment. Desalination, 2009, 248, 881-890.	8.2	11
87	Biosorptive flotation for metal ions removal: the influence of surface tension. Desalination, 2009, 248, 740-752.	8.2	11
88	Emerging nanocomposite biomaterials as biomedical adsorbents: an overview. Composite Interfaces, 2018, 25, 415-454.	2.3	11
89	Selective separation of arsenopyrite from an auriferous pyrite concentrate by sulphonate flotation. International Journal of Mineral Processing, 1993, 38, 141-151.	2.6	10
90	Hydrothermally produced activated carbons from zero-cost green sources for cobalt ions removal. , 0, 123, 288-299.		10

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91	Selective flotation of an auriferous bulk pyrite - arsenopyrite concentrate in presence of sodium sulphoxy - salts. Minerals Engineering, 1993, 6, 1257-1264.	4.3	9
92	Arsenopyrite enrichment by column flotation. Minerals Engineering, 1993, 6, 1265-1277.	4.3	9
93	Processing an Auriferous Pyrite Concentrate in the Presence of Reducing Agents. Canadian Metallurgical Quarterly, 1995, 34, 15-20.	1.2	9
94	Separation of Tungstates from Aqueous Mixtures Containing Impurities (Arsenate, Phosphate and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 195-203.	3.2	9
95	A kinetic model describing cell growth and production of highly active, recombinant ice nucleation protein in Escherichia coli. Biotechnology and Bioengineering, 2002, 78, 321-332.	3.3	8
96	A New Hybrid Flotation- Microfiltration Cell. Separation Science and Technology, 2006, 41, 3229-3243.	2.5	7
97	Cadmium ion removal by electroflotation onto sewage sludge biomass. International Journal of Environment and Waste Management, 2012, 9, 245.	0.3	7
98	Flotation of Biological Materials. Processes, 2014, 2, 293-310.	2.8	7
99	Flotation. Interface Science and Technology, 2019, 30, 15-42.	3.3	7
100	Foam flotation for fine particles removal from water: The example of zeolites. Toxicological and Environmental Chemistry, 1991, 31, 611-619.	1.2	6
101	Two- and three-phase simulations of an ill-functioning dissolved-air flotation tank. International Journal of Environment and Waste Management, 2011, 8, 215.	0.3	6
102	The Role of Catalytic Pretreatment in Biomass Valorization Toward Fuels and Chemicals. , 2013, , 217-260.		6
103	A critical review of the separation of arsenic oxyanions from dilute aqueous solution (the) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 0.3	0.3	5
104	A dissolved-air flotation microcell for floatability tests with particulate systems. Separation and Purification Technology, 1991, 1, 255-258.	0.7	4
105	The process of flotation: an efficient solid/liquid separation technique for biological materials. International Journal of Environment and Pollution, 2008, 32, 29.	0.2	4
106	Extraction and Flameless AAS Determination of Germanium in Lignite Fly Ash. Analytical Letters, 1985, 18, 2467-2475.	1.8	3
107	Fatty acids removal from effluent on mineral fines. Environmental Technology (United Kingdom), 1990, 11, 811-820.	2.2	3
108	Electrolytic flotation in effluent treatment. Journal of Chemical Technology and Biotechnology, 1981, 31, 431-434.	0.2	3

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109	Removal of arsenites onto akaganeite-type adsorbents. International Journal of Environment and Waste Management, 2008, 2, 279.	0.3	3
110	Wastewater Treatment Processes: Part I. Processes, 2020, 8, 334.	2.8	3
111	Adsorption of endocrine disruptor bisphenol A by carbonaceous materials: influence of their porosity and specific surface area. , 0, 76, 232-240.		3
112	The application of flotation for the downstream separation of metal-loaded microorganisms. International Journal of Environment and Pollution, 2007, 30, 287.	0.2	2
113	The recovery of copper from a copper mine effluent in a hybrid flotation/microfiltration cell. International Journal of Environment and Pollution, 2007, 30, 273.	0.2	2
114	A hybrid flotation: microfiltration cell for effluent treatment. International Journal of Environment and Waste Management, 2011, 8, 273.	0.3	2
115	Flotation in the 2010s. Interface Science and Technology, 2019, , 43-68.	3.3	2
116	Metal Ion Extraction by Microorganism Biomass and Sorption Flotation. Journal of Mining Science, 2003, 39, 78-86.	0.6	1
117	Inorganic Nanoadsorbent: Akaganite in Wastewater Treatment. , 2019, , 337-358.		1
118	Biosorbents for heavy metal removal from dilute aqueous solution. , 2020, , 105-132.		1
119	Green Separation and Extraction Processes: Part I. Processes, 2020, 8, 374.	2.8	1
120	On the combination of modern sorbents with cost analysis: A review. Journal of Molecular Structure, 2021, 1229, 129841.	3.6	1
121	Reply to "Comment on the Removal Mechanism of Hexavalent Chromium by Biomaterials or Biomaterials-Based Activated Carbons" (Comment on "Diffusion Kinetic Study of Chromium(VI) Tj ETQq1 1 0,784314 rgBT /Over 2408-2408.	3.7	0