Konstantinos A Matis

List of Publications by Year
in descending order

121	6,290	57758	71685
papers	citations	44 h-index	76 g-index

123	123	123	6687
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the combination of modern sorbents with cost analysis: A review. Journal of Molecular Structure, 2021, 1229, 129841.	3.6	1
2	From Microbubbles to Nanobubbles: Effect on Flotation. Processes, 2021, 9, 1287.	2.8	16
3	Wastewater Treatment Processes: Part I. Processes, 2020, 8, 334.	2.8	3
4	Biosorbents for heavy metal removal from dilute aqueous solution. , 2020, , 105-132.		1
5	Green Separation and Extraction Processes: Part I. Processes, 2020, 8, 374.	2.8	1
6	Flotation in the 2010s. Interface Science and Technology, 2019, , 43-68.	3.3	2
7	Flotation. Interface Science and Technology, 2019, 30, 15-42.	3.3	7
8	Inorganic Nanoadsorbent: AkaganÃ©ite in Wastewater Treatment. , 2019, , 337-358.		1
9	The Flotation Process Can Go Green. Processes, 2019, 7, 138.	2.8	36
10	Enhancing Lignocellulosic Biomass Hydrolysis by Hydrothermal Pretreatment, Extraction of Surface Lignin, Wet Milling and Production of Cellulolytic Enzymes. ChemSusChem, 2019, 12, 1179-1195.	6.8	70
11	A perspective on flotation: a review. Journal of Chemical Technology and Biotechnology, 2018, 93, 615-623.	3.2	47
12	Emerging nanocomposite biomaterials as biomedical adsorbents: an overview. Composite Interfaces, 2018, 25, 415-454.	2.3	11
13	Flotation in Water and Wastewater Treatment. Processes, 2018, 6, 116.	2.8	92
14	Various flotation techniques for metal ions removal. Journal of Molecular Liquids, 2017, 225, 260-264.	4.9	104
15	Hydrodynamic aspects of flotation separation. Open Chemistry, 2016, 14, 132-139.	1.9	12
16	Electroflotation process: A review. Journal of Molecular Liquids, 2016, 220, 657-664.	4.9	92
17	Optimization of Hydrothermal Pretreatment of Hardwood and Softwood Lignocellulosic Residues for Selective Hemicellulose Recovery and Improved Cellulose Enzymatic Hydrolysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 4529-4544.	6.7	151
18	Technologies of winery wastewater treatment: a critical approach. Desalination and Water Treatment, 2016, 57, 3372-3386.	1.0	24

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19	Methods of arsenic wastes recycling: Focus on flotation. Journal of Molecular Liquids, 2016, 214, 37-45.	4.9	18
20	Activated carbons produced by pyrolysis of waste potato peels: Cobalt ions removal by adsorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 490, 74-83.	4.7	178
21	New approaches on the removal of pharmaceuticals from wastewaters with adsorbent materials. Journal of Molecular Liquids, 2015, 209, 87-93.	4.9	172
22	Nanoadsorbents for pollutants removal: A review. Journal of Molecular Liquids, 2015, 203, 159-168.	4.9	327
23	Activated carbons for the removal of heavy metal ions: A systematic review of recent literature focused on lead and arsenic ions. Open Chemistry, 2015, 13, .	1.9	102
24	Bubbleâ€“particle collision interaction in flotation systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 473, 95-103.	4.7	55
25	Study of flotation conditions for cadmium(II) removal from aqueous solutions. Chemical Engineering Research and Design, 2015, 94, 203-211.	5.6	46
26	Flotation of Biological Materials. Processes, 2014, 2, 293-310.	2.8	7
27	New Biosorbent Materials: Selectivity and Bioengineering Insights. Processes, 2014, 2, 419-440.	2.8	22
28	Graphene oxide and its application as an adsorbent for wastewater treatment. Journal of Chemical Technology and Biotechnology, 2014, 89, 196-205.	3.2	322
29	The Change from Past to Future for Adsorbent Materials in Treatment of Dyeing Wastewaters. Materials, 2013, 6, 5131-5158.	2.9	156
30	Optimization of Hydrothermal Pretreatment of Lignocellulosic Biomass in the Bioethanol Production Process. ChemSusChem, 2013, 6, 110-122.	6.8	264
31	The Role of Catalytic Pretreatment in Biomass Valorization Toward Fuels and Chemicals. , 2013, , 217-260.		6
32	Impregnation of activated carbon by iron oxyhydroxide and its effect on arsenate removal. Journal of Chemical Technology and Biotechnology, 2013, 88, 1058-1066.	3.2	21
33	Cadmium ion removal by electroflotation onto sewage sludge biomass. International Journal of Environment and Waste Management, 2012, 9, 245.	0.3	7
34	Adsorption of Pb²⁺ Using Mesoporous Activated Carbon and its Effects on Surface Modifications. Adsorption Science and Technology, 2012, 30, 627-645.	3.2	24
35	Adsorption of reactive dyes from aqueous solutions by layered double hydroxides. Journal of Chemical Technology and Biotechnology, 2012, 87, 575-582.	3.2	39
36	Water Separation Processes and Sustainability. Industrial & Engineering Chemistry Research, 2011, 50, 421-430.	3.7	31

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37	A hybrid flotation: microfiltration cell for effluent treatment. International Journal of Environment and Waste Management, 2011, 8, 273.	0.3	2
38	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
39	Metal ion separation and recovery from environmental sources using various flotation and sorption techniques. Journal of Chemical Technology and Biotechnology, 2011, 86, 335-344.	3.2	103
40	A critical review of the separation of arsenic oxyanions from dilute aqueous solution (the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (	0.3	5
41	Alternative Flotation Techniques for Wastewater Treatment: Focus on Electroflotation. Separation Science and Technology, 2010, 45, 2465-2474.	2.5	53
42	Sorption of reactive dyes from aqueous solutions by ordered hexagonal and disordered mesoporous carbons. Microporous and Mesoporous Materials, 2009, 117, 257-267.	4.4	141
43	Modeling the sorption of metal ions from aqueous solution by iron-based adsorbents. Journal of Hazardous Materials, 2009, 172, 550-558.	12.4	62
44	Adsorption of Remazol Red 3BS from aqueous solutions using APTES- and cyclodextrin-modified HMS-type mesoporous silicas. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 346, 83-90.	4.7	93
45	A hybrid flotationâ€“microfiltration cell for effluent treatment. Desalination, 2009, 248, 881-890.	8.2	11
46	Biosorptive flotation for metal ions removal: the influence of surface tension. Desalination, 2009, 248, 740-752.	8.2	11
47	Application of flotation as a pretreatment process during desalination. Desalination, 2008, 222, 1-8.	8.2	32
48	Metal recovery from a copper mine effluent by a hybrid process. Chemical Engineering and Processing: Process Intensification, 2008, 47, 596-602.	3.6	19
49	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
50	Removal of arsenites onto akaganeite-type adsorbents. International Journal of Environment and Waste Management, 2008, 2, 279.	0.3	3
51	Two-phase simulations of an off-nominally operating dissolved-air flotation tank. International Journal of Environment and Pollution, 2007, 30, 213.	0.2	11
52	The application of flotation for the downstream separation of metal-loaded microorganisms. International Journal of Environment and Pollution, 2007, 30, 287.	0.2	2
53	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
54	CFD Model for the Design of Large Scale Flotation Tanks for Water and Wastewater Treatment. Industrial & Engineering Chemistry Research, 2007, 46, 6590-6599.	3.7	36

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55	Removal of zinc ion from water by sorption onto iron-based nanoadsorbent. Journal of Hazardous Materials, 2007, 141, 176-184.	12.4	109
56	A New Hybrid Flotationâ€"Microfiltration Cell. Separation Science and Technology, 2006, 41, 3229-3243.	2.5	7
57	Reply to â€œComment on the Removal Mechanism of Hexavalent Chromium by Biomaterials or Biomaterials-Based Activated Carbonsâ€•(Comment on â€œDiffusion Kinetic Study of Chromium(VI)) Tj ETQq1 1 0.784314 rgBT /Ove 2408-2408.	3.7	6
58	A hybrid flotationâ€“microfiltration cell for solid/liquid separation: operational characteristics. Desalination, 2006, 194, 135-145.	8.2	21
59	Removal of phosphates from water by a hybrid flotationâ€“membrane filtration cell. Desalination, 2006, 198, 198-207.	8.2	34
60	Adsorptive removal of arsenites by a nanocrystalline hybrid surfactantâ€“akaganeite sorbent. Journal of Colloid and Interface Science, 2006, 302, 458-466.	9.4	113
61	Modeling local flotation frequency in a turbulent flow field. Advances in Colloid and Interface Science, 2006, 122, 79-91.	14.7	24
62	A hybrid flotationâ€"microfiltration process for metal ions recovery. Journal of Membrane Science, 2005, 247, 29-35.	8.2	39
63	Sorption of Arsenic Oxyanions from Aqueous Solution on Goethite: a Study of Process Modelling. Mikrochimica Acta, 2005, 151, 269-275.	5.0	14
64	Cadmium(II) Biosorption byAeromonas caviae: Kinetic Modeling. Separation Science and Technology, 2005, 40, 1293-1311.	2.5	19
65	Air sparging during the solid/liquid separation by microfiltration: application of flotation. Separation and Purification Technology, 2004, 40, 1-7.	7.9	29
66	Metals removal from aqueous solution by iron-based bonding agents. Environmental Science and Pollution Research, 2004, 11, 18-21.	5.3	55
67	Diffusion kinetic study of cadmium(II) biosorption byAeromonas caviae. Journal of Chemical Technology and Biotechnology, 2004, 79, 711-719.	3.2	44
68	A hybrid MF process based on flotation. Journal of Membrane Science, 2004, 228, 83-88.	8.2	27
69	Copper removal from effluents by various separation techniques. Hydrometallurgy, 2004, 74, 149-156.	4.3	81
70	The application of sorptive flotation for the removal of metal ions. Desalination, 2004, 162, 159-168.	8.2	50
71	Equilibrium and kinetic modeling of chromium(VI) biosorption by Aeromonas caviae. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 242, 93-104.	4.7	234
72	Diffusion Kinetic Study of Chromium(VI) Biosorption by Aeromonas caviae. Industrial & Engineering Chemistry Research, 2004, 43, 1748-1755.	3.7	46

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73	Application of flotation for the separation of metal-loaded zeolites. Chemosphere, 2004, 55, 65-72.	8.2	42
74	Heavy Metals Removal by Biosorption and Flotation. Water, Air and Soil Pollution, 2003, 3, 143-151.	0.8	21
75	Metal Ion Extraction by Microorganism Biomass and Sorption Flotation. Journal of Mining Science, 2003, 39, 78-86.	0.6	1
76	Removal of As(V) Ions from Solution by Akaganeite bgr-FeO(OH) Nanocrystals. Journal of Mining Science, 2003, 39, 287-296.	0.6	23
77	The use of biosurfactants in flotation: application for the removal of metal ions. Minerals Engineering, 2003, 16, 1231-1236.	4.3	81
78	Sorptive flotation for metal ions recovery. International Journal of Mineral Processing, 2003, 70, 99-108.	2.6	26
79	Akaganeite and goethite-type nanocrystals: synthesis and characterization. Microporous and Mesoporous Materials, 2003, 59, 35-42.	4.4	72
80	Metal biosorption by PAN-immobilized fungal biomass in simulated wastewaters. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 212, 185-195.	4.7	44
81	Hybrid flotationâ€"membrane filtration process for the removal of heavy metal ions from wastewater. Water Research, 2003, 37, 4018-4026.	11.3	305
82	Removal of As(V) from wastewaters by chemically modified fungal biomass. Water Research, 2003, 37, 4544-4552.	11.3	267
83	Removal of toxic metal ions from aqueous systems by biosorptive flotation. Journal of Chemical Technology and Biotechnology, 2002, 77, 958-964.	3.2	50
84	A kinetic model describing cell growth and production of highly active, recombinant ice nucleation protein inEscherichia coli. Biotechnology and Bioengineering, 2002, 78, 321-332.	3.3	8
85	FLOTATION TECHNIQUES IN WATER TECHNOLOGY FOR METALS RECOVERY: THE IMPACT OF SPECIATION. Separation Science and Technology, 2001, 36, 3777-3800.	2.5	18
86	Modelling the sorption of metals from aqueous solutions on goethite fixed-beds. Environmental Pollution, 2001, 113, 121-128.	7.5	63
87	AkaganÃ©ite-type Î²-FeO(OH) nanocrystals: preparation and characterization. Microporous and Mesoporous Materials, 2001, 42, 49-57.	4.4	101
88	Removal of toxic metals from aqueous mixtures. Part 1: Biosorption. Journal of Chemical Technology and Biotechnology, 1999, 74, 429-436.	3.2	64
89	Removal of metal Ions from dilute aqueous solutions: A comparative study of inorganic sorbent materials. Chemosphere, 1999, 39, 881-892.	8.2	71
90	The removal and recovery of cadmium from dilute aqueous solutions by biosorption and electrolysis at laboratory scale. Water Research, 1998, 32, 400-406.	11.3	89

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91	Biosorption of Metals from Dilute Aqueous Solutions. Separation and Purification Reviews, 1997, 26, 255-295.	0.8	52
92	Removal of metal ions from dilute solutions by sorptive flotation. Critical Reviews in Environmental Science and Technology, 1997, 27, 195-235.	12.8	57
93	Flotation removal of As(V) onto goethite. Environmental Pollution, 1997, 97, 239-245.	7.5	95
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	Processing an Auriferous Pyrite Concentrate in the Presence of Reducing Agents. Canadian Metallurgical Quarterly, 1995, 34, 15-20.	1.2	9
96	Removal of hexavalent chromium anions from solutions by pyrite fines. Water Research, 1995, 29, 1755-1760.	11.3	138
97	Flotation of cadmium-loaded biomass. Biotechnology and Bioengineering, 1994, 44, 354-360.	3.3	57
98	Flotation of powdered activated carbon with adsorbed gold(I)-thiourea complex. Hydrometallurgy, 1994, 36, 39-51.	4.3	18
99	Selective separation of arsenopyrite from an auriferous pyrite concentrate by sulphonate flotation. International Journal of Mineral Processing, 1993, 38, 141-151.	2.6	10
100	A fundamental rotating disk study of gold dissolution in iodine-iodide solutions. Hydrometallurgy, 1993, 34, 49-64.	4.3	48
101	Recovery of gold from thiourea solutions by flotation. Hydrometallurgy, 1993, 34, 79-90.	4.3	13
102	Flotation as a bioseparation process for fungi removal. Biotechnology Letters, 1993, 7, 867-872.	0.5	13
103	Selective flotation of an auriferous bulk pyrite - arsenopyrite concentrate in presence of sodium sulphoxy - salts. Minerals Engineering, 1993, 6, 1257-1264.	4.3	9
104	Arsenopyrite enrichment by column flotation. Minerals Engineering, 1993, 6, 1265-1277.	4.3	9
105	Separation of fines by flotation techniques. Separation and Purification Technology, 1993, 3, 76-90.	0.7	63
106	Processing a bulk pyrite concentrate by flotation reagents. Minerals Engineering, 1992, 5, 331-342.	4.3	15
107	Recovery of Metals by Ion Flotation from Dilute Aqueous Solutions. Separation and Purification Reviews, 1991, 20, 1-48.	0.8	92
108	A dissolved-air flotation microcell for floatability tests with particulate systems. Separation and Purification Technology, 1991, 1, 255-258.	0.7	4

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109	Foam flotation for fine particles removal from water: The example of zeolites. Toxicological and Environmental Chemistry, 1991, 31, 611-619.	1.2	6
110	Foam/Froth Flotation. Separation and Purification Reviews, 1991, 20, 163-198.	0.8	26
111	Fatty acids removal from effluent on mineral fines. Environmental Technology (United Kingdom), 1990, 11, 811-820.	2.2	3
112	Parameters influencing flotation in removal of metal ions. International Journal of Environmental Studies, 1990, 35, 183-196.	1.6	25
113	Anionic flotation of magnesium carbonates by modifiers. International Journal of Mineral Processing, 1989, 25, 261-274.	2.6	35
114	A study and modelling of liquid-phase mixing in a flotation column. International Journal of Mineral Processing, 1989, 26, 1-16.	2.6	35
115	Processing of magnesium carbonate fines by dissolved-air flotation. Colloids and Surfaces, 1988, 29, 191-203.	0.9	28
116	A statistical approach to precipitate flotation of. International Journal of Mineral Processing, 1988, 24, 203-216.	2.6	15
117	Separation of germanium and arsenic from solutions by flotation. International Journal of Mineral Processing, 1987, 21, 83-92.	2.6	31
118	Extraction and Flameless AAS Determination of Germanium in Lignite Fly Ash. Analytical Letters, 1985, 18, 2467-2475.	1.8	3
119	Electrolytic flotation in effluent treatment. Journal of Chemical Technology and Biotechnology, 1981, 31, 431-434.	0.2	3
120	Adsorption of endocrine disruptor bisphenol A by carbonaceous materials: influence of their porosity and specific surface area. , 0, 76, 232-240.		3
121	Hydrothermally produced activated carbons from zero-cost green sources for cobalt ions removal. , 0, 123, 288-299.		10