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List of Publications by Year
in descending order

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98 papers	5,741 citations	93792 39 h-index	90395 73 g-index
98 all docs	98 docs citations	98 times ranked	4991 citing authors

#	Article	IF	Citations
1	Removal of flocculated TiO2 nanoparticles by settling or dissolved air flotation. Environmental Technology (United Kingdom), 2021, 42, 1001-1012.	1.2	8
2	Calcium and magnesium ion removal from water feeding a steam generator by chemical precipitation and flotation with micro and nanobubbles. Environmental Technology (United Kingdom), 2020, 41, 2210-2218.	1.2	19
3	Column reverse rougher flotation of iron bearing fine tailings assisted by HIC and a new cationic collector. Minerals Engineering, 2020, 156, 106531.	1.8	18
4	Bulk nanobubbles in the mineral and environmental areas: Updating research and applications. Advances in Colloid and Interface Science, 2019, 271, 101992.	7.0	97
5	Innovative Precipitation-Flocculation Process for Treating Turbid Waters from Gualaxo do Norte River, Brazil. Mining, Metallurgy and Exploration, 2019, 36, 851-856.	0.4	2
6	Nanobubbles generation in a high-rate hydrodynamic cavitation tube. Minerals Engineering, 2018, 116, 32-34.	1.8	75
7	Revisiting Coiled Flocculator Performance for Particle Aggregation. Water Environment Research, 2018, 90, 322-328.	1.3	6
8	Treatment and water reuse of lead-zinc sulphide ore mill wastewaters by high rate dissolved air flotation. Minerals Engineering, 2018, 127, 114-121.	1.8	26
9	On the role of nanobubbles in particleâ€“bubble adhesion for the flotation of quartz and apatitic minerals. Minerals Engineering, 2018, 127, 178-184.	1.8	87
10	Raw water clarification by flotation with microbubbles and nanobubbles generated with a multiphase pump. Water Science and Technology, 2017, 75, 2342-2349.	1.2	21
11	Removal of ferric hydroxide by flotation with micro and nanobubbles. Separation and Purification Technology, 2017, 184, 347-353.	3.9	63
12	Separation of emulsified crude oil in saline water by flotation with micro- and nanobubbles generated by a multiphase pump. Water Science and Technology, 2017, 76, 2710-2718.	1.2	20
13	Nanobubbles: Generation using a multiphase pump, properties and features in flotation. Minerals Engineering, 2017, 112, 19-26.	1.8	128
14	Separation of emulsified crude oil in saline water by dissolved air flotation with micro and nanobubbles. Separation and Purification Technology, 2017, 186, 326-332.	3.9	155
15	Aqueous dispersions of nanobubbles: Generation, properties and features. Minerals Engineering, 2016, 94, 29-37.	1.8	184
16	Factors affecting the floto-elutriation process efficiency of a copper sulfide mineral. Minerals Engineering, 2016, 86, 59-65.	1.8	1
17	Removal of sulfate ions by dissolved air flotation (DAF) following precipitation and flocculation. International Journal of Mineral Processing, 2016, 149, 1-8.	2.6	74
18	Separation of amine-insoluble species by flotation with nano and microbubbles. Minerals Engineering, 2016, 89, 24-29.	1.8	70

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19	Recovery of phosphate ores in the modified three-product column (3PC) flotation cell. Minerals Engineering, 2015, 72, 121-128.	1.8	2
20	Flotation of quartz particles assisted by nanobubbles. International Journal of Mineral Processing, 2015, 137, 64-70.	2.6	154
21	Application of flocculationâ€“flotation followed by ozonation in vehicle wash wastewater treatment/disinfection and water reclamation. Desalination and Water Treatment, 2015, 56, 1728-1736.	1.0	23
22	Polymer-bridging flocculation performance using turbulent pipe flow. Minerals Engineering, 2015, 70, 20-25.	1.8	34
23	Nucleation, growth and coalescence phenomena of air bubbles on quartz particles in different aqueous solutions. Bubble Science, Engineering & Technology, 2014, 5, 15-24.	0.2	7
24	Operating Parameters Affecting the Formation of Kaolin Aerated Flocs in Water and Wastewater Treatment. Clean - Soil, Air, Water, 2014, 42, 909-916.	0.7	3
25	On the nanobubbles interfacial properties and future applications in flotation. Minerals Engineering, 2014, 60, 33-40.	1.8	205
26	Froth flotation of sphalerite: Collector concentration, gas dispersion and particle size effects. Minerals Engineering, 2014, 57, 72-78.	1.8	19
27	Factors involving the solids-carrying flotation capacity of microbubbles. Minerals Engineering, 2013, 53, 160-166.	1.8	13
28	Car wash wastewater treatment and water reuse â€“ a case study. Water Science and Technology, 2013, 67, 82-88.	1.2	27
29	A short overview of the formation of aerated flocs and their applications in solid/liquid separation by flotation. Minerals Engineering, 2012, 39, 124-132.	1.8	36
30	Kaolin aerated flocs formation assisted by polymer-coated microbubbles. International Journal of Mineral Processing, 2012, 106-109, 31-36.	2.6	17
31	More environmentally friendly vehicle washes: water reclamation. Journal of Cleaner Production, 2012, 37, 115-124.	4.6	43
32	Gas dispersion measurements in microbubble flotation systems. Minerals Engineering, 2012, 26, 34-40.	1.8	40
33	Adsorbing colloidal flotation removing metals ions in a modified jet cell. Minerals Engineering, 2011, 24, 1010-1015.	1.8	16
34	Modified-three-product column (3PC) flotation of copperâ€“gold particles in a rougher feed and tailings. Minerals Engineering, 2011, 24, 1397-1401.	1.8	18
35	Zeta potential of single and polymer-coated microbubbles using an adapted microelectrophoresis technique. International Journal of Mineral Processing, 2011, 98, 118-123.	2.6	50
36	Modified jet flotation in oil (petroleum) emulsion/water separations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 375, 237-244.	2.3	100

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37	On the gas dispersion measurements in the collection zone of flotation columns. International Journal of Mineral Processing, 2011, 99, 78-83.	2.6	19
38	Car wash wastewater reclamation. Full-scale application and upcoming features. Resources, Conservation and Recycling, 2011, 55, 953-959.	5.3	62
39	Adsorption of sodium dodecyl benzene sulfonate from aqueous solution using a modified natural zeolite with CTAB. Minerals Engineering, 2010, 23, 771-779.	1.8	128
40	Removal of Mn2+ from aqueous solution by manganese oxide coated zeolite. Minerals Engineering, 2010, 23, 1131-1138.	1.8	167
41	Flotation of copper sulphides assisted by high intensity conditioning (HIC) and concentrate recirculation. Minerals Engineering, 2010, 23, 1198-1206.	1.8	32
42	Sulphate ions removal from an aqueous solution: I. Co-precipitation with hydrolysed aluminum-bearing salts. Minerals Engineering, 2010, 23, 1220-1226.	1.8	81
43	A new technique for characterizing aerated flocs in a flocculationâ€“microbubble flotation system. International Journal of Mineral Processing, 2010, 96, 36-44.	2.6	27
44	Coal Ash Transportation as Paste-Like, Highly Loaded Pulps in Brazil: Characterization and Main Features. International Journal of Coal Preparation and Utilization, 2009, 29, 203-215.	1.2	6
45	On the removal of Mn2+ ions by adsorption onto natural and activated Chilean zeolites. Minerals Engineering, 2009, 22, 336-343.	1.8	163
46	Interaction force between an air bubble and a hydrophilic spherical particle in water, measured by the colloid probe technique. International Journal of Mineral Processing, 2009, 92, 121-127.	2.6	35
47	Isopropylxanthate ions uptake by modified natural zeolite and removal by dissolved air flotation. International Journal of Mineral Processing, 2009, 90, 21-26.	2.6	11
48	Dissolved air flotation (DAF) of fine quartz particles using an amine as collector. International Journal of Mineral Processing, 2009, 90, 27-34.	2.6	35
49	Treatment of Acid Mine Drainage (AMD) in South Brazil. International Journal of Mineral Processing, 2009, 93, 103-109.	2.6	56
50	Treatment of washrack wastewater with water recycling by advanced flocculationâ€“column flotation. Desalination and Water Treatment, 2009, 8, 146-153.	1.0	15
51	Treatment of Acid Mine Drainage (AMD) from Coal Mines in South Brazil. International Journal of Coal Preparation and Utilization, 2009, 29, 192-202.	1.2	8
52	Unconventional column flotation of low-grade gold fine particles from tailings. International Journal of Mineral Processing, 2008, 86, 75-84.	2.6	23
53	Flotation in water and wastewater treatment and reuse: recent trends in Brazil. International Journal of Environment and Pollution, 2007, 30, 197.	0.2	48
54	Adsorption of ions onto treated natural zeolite. Materials Research, 2007, 10, 407-412.	0.6	15

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55	Characterization of the high kinetic energy dissipation of the Flocs Generator Reactor (FGR). International Journal of Mineral Processing, 2007, 85, 41-49.	2.6	31
56	New basis for adsorption of ionic pollutants onto modified zeolites. Minerals Engineering, 2007, 20, 552-558.	1.8	55
57	DAFâ€“dissolved air flotation: Potential applications in the mining and mineral processing industry. International Journal of Mineral Processing, 2007, 82, 1-13.	2.6	159
58	Enhanced flotation of sulfide fines using the emulsified oil extender technique. International Journal of Mineral Processing, 2007, 84, 41-50.	2.6	35
59	Modified column flotation of adsorbing iron hydroxide colloidal precipitates. International Journal of Mineral Processing, 2006, 79, 167-173.	2.6	48
60	Adsorbing flocs in expanded/fluidised bed reactors: A new basis for pollutants removal. Minerals Engineering, 2006, 19, 918-924.	1.8	6
61	Deinking flotation: influence of calcium soap and surface-active substances. Minerals Engineering, 2005, 18, 59-64.	1.8	26
62	The FF (flocculationâ€“flotation) process. Minerals Engineering, 2005, 18, 701-707.	1.8	72
63	Characterization and environmental application of a Chilean natural zeolite. International Journal of Mineral Processing, 2005, 75, 21-29.	2.6	179
64	The flocs generator reactor-FGR: a new basis for flocculation and solidâ€“liquid separation. International Journal of Mineral Processing, 2005, 75, 237-247.	2.6	54
65	Treatment of municipal wastewater UASB reactor effluent by unconventional flotation and UV disinfection. Water Science and Technology, 2005, 52, 315-322.	1.2	13
66	Adsorption onto Fluidized Powdered Activated Carbon Flocs-PACF. Environmental Science & Technology, 2005, 39, 885-888.	4.6	16
67	Optimizing Coal Feed in a Brazilian Thermal Power Plant: A Case Study. Coal Preparation, 2004, 24, 69-83.	0.5	3
68	Advances in the adsorptive particulate flotation process. International Journal of Mineral Processing, 2004, 74, 101-106.	2.6	23
69	Sulphate and molybdate ions uptake by chitin-based shrimp shells. Minerals Engineering, 2003, 16, 715-722.	1.8	69
70	New basis for measuring the size distribution of bubbles. Minerals Engineering, 2003, 16, 757-765.	1.8	148
71	A Dried Hydrophobic Aquaphyte as an Oil Filter for Oil/Water Emulsions. Spill Science and Technology Bulletin, 2003, 8, 483-489.	0.4	55
72	ADSORPTION OF Cu IONS ONTO A 1.10 PHENANTHROLINE-GRAFTED BRAZILIAN BENTONITE. Clays and Clay Minerals, 2003, 51, 58-64.	0.6	22

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73	Sorption of Heavy Metals on a Coal Beneficiation Tailing Material: II. Adsorptive Particulate Flotation. Coal Preparation, 2002, 22, 235-248.	0.5	3
74	Overview of flotation as a wastewater treatment technique. Minerals Engineering, 2002, 15, 139-155.	1.8	716
75	Removal of aqueous phenol catalysed by a low purity soybean peroxidase. Journal of Chemical Technology and Biotechnology, 2002, 77, 851-857.	1.6	48
76	Optimizing dissolved air flotation design and saturation. Water Science and Technology, 2001, 43, 145-157.	1.2	39
77	Biosorption of metals onto plant biomass: exchange adsorption or surface precipitation?. International Journal of Mineral Processing, 2001, 62, 111-120.	2.6	105
78	Sorption of Heavy Metals on a Coal BeneficiationTailing Material. I: Characterization and Mechanisms Involved. Coal Preparation, 2000, 21, 477-495.	0.5	5
79	Sorption of Oils by the Nonliving Biomass of aSalviniasp.. Environmental Science & Technology, 2000, 34, 5201-5205.	4.6	37
80	Optimizing dissolved air flotation design system. Brazilian Journal of Chemical Engineering, 2000, 17, 549-556.	0.7	10
81	Removal of phenol by enzymatic oxidation and flotation. Brazilian Journal of Chemical Engineering, 2000, 17, 907-914.	0.7	12
82	Effect of mining chemicals on biosorption of Cu(II) by the non-living biomass of the macrophyte Potamogeton lucens. Minerals Engineering, 1999, 12, 255-260.	1.8	34
83	Dissolved air flotation (DAF) performance at low saturation pressures. Filtration and Separation, 1999, 36, 61-65.	0.2	36
84	Sorption of Heavy Metal Ions by the Nonliving Biomass of Freshwater Macrophytes. Environmental Science & Technology, 1999, 33, 2213-2217.	4.6	152
85	High intensity conditioning and the carrier flotation of gold fine particles. International Journal of Mineral Processing, 1998, 52, 273-285.	2.6	61
86	Removal of Hg, As and Se ions from gold cyanide leach solutions by dissolved air flotation. Minerals Engineering, 1998, 11, 535-543.	1.8	35
87	Removal of heavy metal ions by adsorptive particulate flotation. Minerals Engineering, 1997, 10, 671-679.	1.8	73
88	Removal of mercury from gold cyanide solution by dissolved air flotation. Minerals Engineering, 1997, 10, 803-811.	1.8	26
89	Modified column flotation of mineral particles. International Journal of Mineral Processing, 1996, 48, 183-196.	2.6	21
90	Eichhornia crassipes as biosorbent for heavy metal ions. Minerals Engineering, 1995, 8, 979-988.	1.8	54

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91	Primary treatment of a soybean protein bearing effluent by dissolved air flotation and by sedimentation. Water Research, 1995, 29, 69-75.	5.3	17
92	The process of separation of fine mineral particles by flotation with hydrophobic polymeric carrier. International Journal of Mineral Processing, 1993, 37, 109-122.	2.6	25
93	Lamellar flotation of a lead-zinc sulphide ore. Minerals Engineering, 1991, 4, 133-140.	1.8	1
94	Factors affecting the selective flocculation of hydroxyapatite from quartz and/or calcite mixtures. International Journal of Mineral Processing, 1987, 20, 59-71.	2.6	19
95	The flocculation properties of poly (ethylene oxide). Colloids and Surfaces, 1981, 3, 79-95.	0.9	33
96	The mechanism of adsorption of poly(ethylene oxide) flocculant on silica. Journal of Colloid and Interface Science, 1976, 57, 132-142.	5.0	292
97	Determination of very low concentrations of polyacrylamide and polyethyleneoxide flocculants by nephelometry. British Polymer Journal, 1975, 7, 135-138.	0.7	62
98	Stability of colloidal silica in the presence of quaternary ammonium salts. Journal of Colloid and Interface Science, 1971, 36, 289-291.	5.0	19