

Jorge Rubio

List of Publications by Year in descending order

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98
papers

5,741
citations

81839

39
h-index

79644

73
g-index

98
all docs

98
docs citations

98
times ranked

4535
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of flotation as a wastewater treatment technique. Minerals Engineering, 2002, 15, 139-155.	1.8	716
2	The mechanism of adsorption of poly(ethylene oxide) flocculant on silica. Journal of Colloid and Interface Science, 1976, 57, 132-142.	5.0	292
3	On the nanobubbles interfacial properties and future applications in flotation. Minerals Engineering, 2014, 60, 33-40.	1.8	205
4	Aqueous dispersions of nanobubbles: Generation, properties and features. Minerals Engineering, 2016, 94, 29-37.	1.8	184
5	Characterization and environmental application of a Chilean natural zeolite. International Journal of Mineral Processing, 2005, 75, 21-29.	2.6	179
6	Removal of Mn ²⁺ from aqueous solution by manganese oxide coated zeolite. Minerals Engineering, 2010, 23, 1131-1138.	1.8	167
7	On the removal of Mn ²⁺ ions by adsorption onto natural and activated Chilean zeolites. Minerals Engineering, 2009, 22, 336-343.	1.8	163
8	DAF—dissolved air flotation: Potential applications in the mining and mineral processing industry. International Journal of Mineral Processing, 2007, 82, 1-13.	2.6	159
9	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
10	Flotation of quartz particles assisted by nanobubbles. International Journal of Mineral Processing, 2015, 137, 64-70.	2.6	154
11	Sorption of Heavy Metal Ions by the Nonliving Biomass of Freshwater Macrophytes. Environmental Science & Technology, 1999, 33, 2213-2217.	4.6	152
12	New basis for measuring the size distribution of bubbles. Minerals Engineering, 2003, 16, 757-765.	1.8	148
13	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
14	Nanobubbles: Generation using a multiphase pump, properties and features in flotation. Minerals Engineering, 2017, 112, 19-26.	1.8	128
15	Biosorption of metals onto plant biomass: exchange adsorption or surface precipitation?. International Journal of Mineral Processing, 2001, 62, 111-120.	2.6	105
16	Modified jet flotation in oil (petroleum) emulsion/water separations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 375, 237-244.	2.3	100
17	Bulk nanobubbles in the mineral and environmental areas: Updating research and applications. Advances in Colloid and Interface Science, 2019, 271, 101992.	7.0	97
18	On the role of nanobubbles in particle—bubble adhesion for the flotation of quartz and apatitic minerals. Minerals Engineering, 2018, 127, 178-184.	1.8	87

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19	Sulphate ions removal from an aqueous solution: I. Co-precipitation with hydrolysed aluminum-bearing salts. <i>Minerals Engineering</i> , 2010, 23, 1220-1226.	1.8	81
20	Nanobubbles generation in a high-rate hydrodynamic cavitation tube. <i>Minerals Engineering</i> , 2018, 116, 32-34.	1.8	75
21	Removal of sulfate ions by dissolved air flotation (DAF) following precipitation and flocculation. <i>International Journal of Mineral Processing</i> , 2016, 149, 1-8.	2.6	74
22	Removal of heavy metal ions by adsorptive particulate flotation. <i>Minerals Engineering</i> , 1997, 10, 671-679.	1.8	73
23	The FF (flocculation+flotation) process. <i>Minerals Engineering</i> , 2005, 18, 701-707.	1.8	72
24	Separation of amine-insoluble species by flotation with nano and microbubbles. <i>Minerals Engineering</i> , 2016, 89, 24-29.	1.8	70
25	Sulphate and molybdate ions uptake by chitin-based shrimp shells. <i>Minerals Engineering</i> , 2003, 16, 715-722.	1.8	69
26	Removal of ferric hydroxide by flotation with micro and nanobubbles. <i>Separation and Purification Technology</i> , 2017, 184, 347-353.	3.9	63
27	Determination of very low concentrations of polyacrylamide and polyethyleneoxide flocculants by nephelometry. <i>British Polymer Journal</i> , 1975, 7, 135-138.	0.7	62
28	Car wash wastewater reclamation. Full-scale application and upcoming features. <i>Resources, Conservation and Recycling</i> , 2011, 55, 953-959.	5.3	62
29	High intensity conditioning and the carrier flotation of gold fine particles. <i>International Journal of Mineral Processing</i> , 1998, 52, 273-285.	2.6	61
30	Treatment of Acid Mine Drainage (AMD) in South Brazil. <i>International Journal of Mineral Processing</i> , 2009, 93, 103-109.	2.6	56
31	A Dried Hydrophobic Aquaphyte as an Oil Filter for Oil/Water Emulsions. <i>Spill Science and Technology Bulletin</i> , 2003, 8, 483-489.	0.4	55
32	New basis for adsorption of ionic pollutants onto modified zeolites. <i>Minerals Engineering</i> , 2007, 20, 552-558.	1.8	55
33	<i>Eichhornia crassipes</i> as biosorbent for heavy metal ions. <i>Minerals Engineering</i> , 1995, 8, 979-988.	1.8	54
34	The flocs generator reactor-FGR: a new basis for flocculation and solid-liquid separation. <i>International Journal of Mineral Processing</i> , 2005, 75, 237-247.	2.6	54
35	Zeta potential of single and polymer-coated microbubbles using an adapted microelectrophoresis technique. <i>International Journal of Mineral Processing</i> , 2011, 98, 118-123.	2.6	50
36	Removal of aqueous phenol catalysed by a low purity soybean peroxidase. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 851-857.	1.6	48

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37	Modified column flotation of adsorbing iron hydroxide colloidal precipitates. International Journal of Mineral Processing, 2006, 79, 167-173.	2.6	48
38	Flotation in water and wastewater treatment and reuse: recent trends in Brazil. International Journal of Environment and Pollution, 2007, 30, 197.	0.2	48
39	More environmentally friendly vehicle washes: water reclamation. Journal of Cleaner Production, 2012, 37, 115-124.	4.6	43
40	Gas dispersion measurements in microbubble flotation systems. Minerals Engineering, 2012, 26, 34-40.	1.8	40
41	Optimizing dissolved air flotation design and saturation. Water Science and Technology, 2001, 43, 145-157.	1.2	39
42	Sorption of Oils by the Nonliving Biomass of aSalviniasp.. Environmental Science & Technology, 2000, 34, 5201-5205.	4.6	37
43	Dissolved air flotation (DAF) performance at low saturation pressures. Filtration and Separation, 1999, 36, 61-65.	0.2	36
44	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
45	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
46	Enhanced flotation of sulfide fines using the emulsified oil extender technique. International Journal of Mineral Processing, 2007, 84, 41-50.	2.6	35
47	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
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	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
50	Polymer-bridging flocculation performance using turbulent pipe flow. Minerals Engineering, 2015, 70, 20-25.	1.8	34
51	The flocculation properties of poly (ethylene oxide). Colloids and Surfaces, 1981, 3, 79-95.	0.9	33
52	Flotation of copper sulphides assisted by high intensity conditioning (HIC) and concentrate recirculation. Minerals Engineering, 2010, 23, 1198-1206.	1.8	32
53	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
54	A new technique for characterizing aerated flocs in a flocculation“microbubble flotation system. International Journal of Mineral Processing, 2010, 96, 36-44.	2.6	27

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55	Car wash wastewater treatment and water reuse – a case study. <i>Water Science and Technology</i> , 2013, 67, 82-88.	1.2	27
56	Removal of mercury from gold cyanide solution by dissolved air flotation. <i>Minerals Engineering</i> , 1997, 10, 803-811.	1.8	26
57	Deinking flotation: influence of calcium soap and surface-active substances. <i>Minerals Engineering</i> , 2005, 18, 59-64.	1.8	26
58	Treatment and water reuse of lead-zinc sulphide ore mill wastewaters by high rate dissolved air flotation. <i>Minerals Engineering</i> , 2018, 127, 114-121.	1.8	26
59	The process of separation of fine mineral particles by flotation with hydrophobic polymeric carrier. <i>International Journal of Mineral Processing</i> , 1993, 37, 109-122.	2.6	25
60	Advances in the adsorptive particulate flotation process. <i>International Journal of Mineral Processing</i> , 2004, 74, 101-106.	2.6	23
61	Unconventional column flotation of low-grade gold fine particles from tailings. <i>International Journal of Mineral Processing</i> , 2008, 86, 75-84.	2.6	23
62	Application of flocculation–flotation followed by ozonation in vehicle wash wastewater treatment/disinfection and water reclamation. <i>Desalination and Water Treatment</i> , 2015, 56, 1728-1736.	1.0	23
63	ADSORPTION OF Cu IONS ONTO A 1.10 PHENANTHROLINE-GRAFTED BRAZILIAN BENTONITE. <i>Clays and Clay Minerals</i> , 2003, 51, 58-64.	0.6	22
64	Modified column flotation of mineral particles. <i>International Journal of Mineral Processing</i> , 1996, 48, 183-196.	2.6	21
65	Raw water clarification by flotation with microbubbles and nanobubbles generated with a multiphase pump. <i>Water Science and Technology</i> , 2017, 75, 2342-2349.	1.2	21
66	Separation of emulsified crude oil in saline water by flotation with micro- and nanobubbles generated by a multiphase pump. <i>Water Science and Technology</i> , 2017, 76, 2710-2718.	1.2	20
67	Stability of colloidal silica in the presence of quaternary ammonium salts. <i>Journal of Colloid and Interface Science</i> , 1971, 36, 289-291.	5.0	19
68	Factors affecting the selective flocculation of hydroxyapatite from quartz and/or calcite mixtures. <i>International Journal of Mineral Processing</i> , 1987, 20, 59-71.	2.6	19
69	On the gas dispersion measurements in the collection zone of flotation columns. <i>International Journal of Mineral Processing</i> , 2011, 99, 78-83.	2.6	19
70	Froth flotation of sphalerite: Collector concentration, gas dispersion and particle size effects. <i>Minerals Engineering</i> , 2014, 57, 72-78.	1.8	19
71	Calcium and magnesium ion removal from water feeding a steam generator by chemical precipitation and flotation with micro and nanobubbles. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 2210-2218.	1.2	19
72	Modified-three-product column (3PC) flotation of copper–gold particles in a rougher feed and tailings. <i>Minerals Engineering</i> , 2011, 24, 1397-1401.	1.8	18

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73	Column reverse rougher flotation of iron bearing fine tailings assisted by HIC and a new cationic collector. <i>Minerals Engineering</i> , 2020, 156, 106531.	1.8	18
74	Primary treatment of a soybean protein bearing effluent by dissolved air flotation and by sedimentation. <i>Water Research</i> , 1995, 29, 69-75.	5.3	17
75	Kaolin aerated flocs formation assisted by polymer-coated microbubbles. <i>International Journal of Mineral Processing</i> , 2012, 106-109, 31-36.	2.6	17
76	Adsorption onto Fluidized Powdered Activated Carbon Flocs-PACF. <i>Environmental Science & Technology</i> , 2005, 39, 885-888.	4.6	16
77	Adsorbing colloidal flotation removing metals ions in a modified jet cell. <i>Minerals Engineering</i> , 2011, 24, 1010-1015.	1.8	16
78	Adsorption of ions onto treated natural zeolite. <i>Materials Research</i> , 2007, 10, 407-412.	0.6	15
79	Treatment of washrack wastewater with water recycling by advanced flocculation column flotation. <i>Desalination and Water Treatment</i> , 2009, 8, 146-153.	1.0	15
80	Treatment of municipal wastewater UASB reactor effluent by unconventional flotation and UV disinfection. <i>Water Science and Technology</i> , 2005, 52, 315-322.	1.2	13
81	Factors involving the solids-carrying flotation capacity of microbubbles. <i>Minerals Engineering</i> , 2013, 53, 160-166.	1.8	13
82	Removal of phenol by enzymatic oxidation and flotation. <i>Brazilian Journal of Chemical Engineering</i> , 2000, 17, 907-914.	0.7	12
83	Isopropylxanthate ions uptake by modified natural zeolite and removal by dissolved air flotation. <i>International Journal of Mineral Processing</i> , 2009, 90, 21-26.	2.6	11
84	Optimizing dissolved air flotation design system. <i>Brazilian Journal of Chemical Engineering</i> , 2000, 17, 549-556.	0.7	10
85	Treatment of Acid Mine Drainage (AMD) from Coal Mines in South Brazil. <i>International Journal of Coal Preparation and Utilization</i> , 2009, 29, 192-202.	1.2	8
86	Removal of flocculated TiO ₂ nanoparticles by settling or dissolved air flotation. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1001-1012.	1.2	8
87	Nucleation, growth and coalescence phenomena of air bubbles on quartz particles in different aqueous solutions. <i>Bubble Science, Engineering & Technology</i> , 2014, 5, 15-24.	0.2	7
88	Adsorbing flocs in expanded/fluidised bed reactors: A new basis for pollutants removal. <i>Minerals Engineering</i> , 2006, 19, 918-924.	1.8	6
89	Coal Ash Transportation as Paste-Like, Highly Loaded Pulps in Brazil: Characterization and Main Features. <i>International Journal of Coal Preparation and Utilization</i> , 2009, 29, 203-215.	1.2	6
90	Revisiting Coiled Flocculator Performance for Particle Aggregation. <i>Water Environment Research</i> , 2018, 90, 322-328.	1.3	6

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91	Sorption of Heavy Metals on a Coal Beneficiation Tailing Material. I: Characterization and Mechanisms Involved. Coal Preparation, 2000, 21, 477-495.	0.5	5
92	Sorption of Heavy Metals on a Coal Beneficiation Tailing Material: II. Adsorptive Particulate Flotation. Coal Preparation, 2002, 22, 235-248.	0.5	3
93	Optimizing Coal Feed in a Brazilian Thermal Power Plant: A Case Study. Coal Preparation, 2004, 24, 69-83.	0.5	3
94	Operating Parameters Affecting the Formation of Kaolin Aerated Floccs in Water and Wastewater Treatment. Clean - Soil, Air, Water, 2014, 42, 909-916.	0.7	3
95	Recovery of phosphate ores in the modified three-product column (3PC) flotation cell. Minerals Engineering, 2015, 72, 121-128.	1.8	2
96	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
97	Lamellar flotation of a lead-zinc sulphide ore. Minerals Engineering, 1991, 4, 133-140.	1.8	1
98	Factors affecting the floto-elutriation process efficiency of a copper sulfide mineral. Minerals Engineering, 2016, 86, 59-65.	1.8	1