

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

173
papers

4,341
citations

38
h-index

57
g-index

184
ext. papers

5,214
ext. citations

5.3
avg, IF

5.96
L-index

#	Paper	IF	Citations
173	Shape-Dependent Electrocatalytic Reduction of CO to CO on Triangular Silver Nanoplates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2160-2163	16.4	393
172	The adsorption of polysaccharides onto mineral surfaces: an acid/base interaction. <i>International Journal of Mineral Processing</i> , 2000 , 60, 229-245		195
171	Current understanding of the mechanism of polysaccharide adsorption at the mineral/aqueous solution interface. <i>International Journal of Mineral Processing</i> , 2007 , 84, 59-68		128
170	The role of metal hydroxides at mineral surfaces in dextrin adsorption, II. Chalcopyrite-galena separations in the presence of dextrin. <i>International Journal of Mineral Processing</i> , 1989 , 27, 147-155		94
169	The interactions between dextrin and metal hydroxides in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 1989 , 130, 101-111	9.3	92
168	Slime coatings in froth flotation: A review. <i>Minerals Engineering</i> , 2017 , 114, 26-36	4.9	88
167	Froth Treatment in Athabasca Oil Sands Bitumen Recovery Process: A Review. <i>Energy & Fuels</i> , 2013 , 27, 7199-7207	4.1	83
166	Effect of calcium ions and citric acid on the flotation separation of chalcopyrite from galena using dextrin. <i>Minerals Engineering</i> , 2000 , 13, 1405-1416	4.9	83
165	The role of metal hydroxides at mineral surfaces in dextrin adsorption, I. Studies on modified quartz samples. <i>International Journal of Mineral Processing</i> , 1989 , 26, 297-316		83
164	Ultrathin 5-fold twinned sub-25 nm silver nanowires enable highly selective electroreduction of CO ₂ to CO. <i>Nano Energy</i> , 2018 , 45, 456-462	17.1	77
163	Recent advances in reverse flotation of diasporic ores—Chinese experience. <i>Minerals Engineering</i> , 2004 , 17, 1007-1015	4.9	73
162	Reexamining the functions of zinc sulfate as a selective depressant in differential sulfide flotation—the role of coagulation. <i>Journal of Colloid and Interface Science</i> , 2006 , 301, 523-31	9.3	72
161	Geopolymerization and Its Potential Application in Mine Tailings Consolidation: A Review. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2015 , 36, 399-409	3.1	64
160	Sphalerite activation: Flotation and electrokinetic studies. <i>Minerals Engineering</i> , 1997 , 10, 787-802	4.9	60
159	Interaction Mechanisms between Air Bubble and Molybdenite Surface: Impact of Solution Salinity and Polymer Adsorption. <i>Langmuir</i> , 2017 , 33, 2353-2361	4	54
158	Using chitosan as a selective depressant in the differential flotation of Cu ₂ S sulfides. <i>International Journal of Mineral Processing</i> , 2012 , 106-109, 8-15		54
157	Room temperature interfacial reactions in electrodeposited Au/Sn couples. <i>Acta Materialia</i> , 2008 , 56, 5818-5827	8.4	54

156	Solvent screening for non-aqueous extraction of Alberta oil sands. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 1153-1160	2.3	52
155	Solid state interfacial reactions in electrodeposited Cu/Sn couples. <i>Transactions of Nonferrous Metals Society of China</i> , 2010 , 20, 90-96	3.3	52
154	Electrodeposition of tin: a simple approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2008 , 19, 553-562	2.1	52
153	Rational Design of Silver Sulfide Nanowires for Efficient CO ₂ Electroreduction in Ionic Liquid. <i>ACS Catalysis</i> , 2018 , 8, 1469-1475	13.1	51
152	Modulation of Hydrophobic Interaction by Mediating Surface Nanoscale Structure and Chemistry, not Monotonically by Hydrophobicity. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11903-11908	16.4	50
151	Clay minerals in nonaqueous extraction of bitumen from Alberta oil sands. <i>Fuel Processing Technology</i> , 2012 , 94, 80-85	7.2	50
150	Exploiting the dual functions of polymer depressants in fine particle flotation. <i>International Journal of Mineral Processing</i> , 2006 , 80, 244-254		49
149	Kinetics of Sn electrodeposition from Sn(II) nitrate solutions. <i>Electrochimica Acta</i> , 2008 , 53, 8332-8340	6.7	46
148	Magnetic properties of ilmenite, hematite and oilsand minerals after roasting. <i>Minerals Engineering</i> , 2002 , 15, 1121-1129	4.9	45
147	Flotation separation of copper-molybdenum sulfides using chitosan as a selective depressant. <i>Minerals Engineering</i> , 2015 , 83, 217-222	4.9	44
146	Adsorption of chitosan on chalcopyrite and galena from aqueous suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 409, 167-175	5.1	44
145	Study of Asphaltene Adsorption on Kaolinite by X-ray Photoelectron Spectroscopy and Time-of-Flight Secondary Ion Mass Spectroscopy. <i>Energy & Fuels</i> , 2013 , 27, 2465-2473	4.1	44
144	Polysaccharides in flotation of sulphides. Part I. Adsorption of polysaccharides onto mineral surfaces. <i>International Journal of Mineral Processing</i> , 1991 , 33, 223-234		43
143	Reducing quartz gangue entrainment in sulphide ore flotation by high molecular weight polyethylene oxide. <i>International Journal of Mineral Processing</i> , 2010 , 97, 44-51		42
142	Stabilization mechanism and chemical demulsification of water-in-oil and oil-in-water emulsions in petroleum industry: A review. <i>Fuel</i> , 2021 , 286, 119390	7.1	42
141	New insights into the slime coating caused by montmorillonite in the flotation of coal. <i>Journal of Cleaner Production</i> , 2020 , 242, 118540	10.3	41
140	Chemical structure analyses of phosphorylated chitosan. <i>Carbohydrate Research</i> , 2014 , 386, 48-56	2.9	39
139	Depressant function of high molecular weight polyacrylamide in the xanthate flotation of chalcopyrite and galena. <i>International Journal of Mineral Processing</i> , 2014 , 128, 6-15		38

138	The adsorption and configuration of octyl hydroxamic acid on pyrochlore and calcite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 411, 80-86	5.1	38
137	Nucleation of Sn and SnCu alloys on Pt during electrodeposition from Sn nitrate and SnCu nitrate solutions. <i>Electrochimica Acta</i> , 2009 , 54, 3419-3427	6.7	38
136	The development of a composite collector for the flotation of rutile. <i>Minerals Engineering</i> , 1999 , 12, 1419-1430	4.9	38
135	Distribution of Pb(II) species in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2003 , 268, 266-9	9.3	37
134	Performance of Solvent Mixtures for Non-aqueous Extraction of Alberta Oil Sands. <i>Energy & Fuels</i> , 2015 , 29, 2261-2267	4.1	36
133	Selective depression of pyrite with chitosan in PbFe sulfide flotation. <i>Minerals Engineering</i> , 2013 , 46-47, 45-51	4.9	36
132	Clay minerals in nonaqueous extraction of bitumen from Alberta oil sands: Part 2. Characterization of clay minerals. <i>Fuel Processing Technology</i> , 2012 , 96, 183-194	7.2	36
131	Probing Surface Interactions of Electrochemically Active Galena Mineral Surface Using Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22433-22442	3.8	36
130	Mapping the Nanoscale Heterogeneity of Surface Hydrophobicity on the Sphalerite Mineral. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5620-5628	3.8	34
129	Mineralogical and chemical composition of petrologic end members of Alberta oil sands. <i>Fuel</i> , 2013 , 113, 148-157	7.1	34
128	Sulfuric acid leaching of ocean manganese nodules using phenols as reducing agents. <i>Minerals Engineering</i> , 2001 , 14, 525-537	4.9	34
127	Selective flotation separation of molybdenite and talc by humic substances. <i>Minerals Engineering</i> , 2018 , 117, 34-41	4.9	34
126	Probing the Interaction Mechanism between Air Bubbles and Bitumen Surfaces in Aqueous Media Using Bubble Probe Atomic Force Microscopy. <i>Langmuir</i> , 2018 , 34, 729-738	4	31
125	Developing flotation reagents for niobium oxide recovery from carbonatite Nb ores. <i>Minerals Engineering</i> , 2012 , 36-38, 111-118	4.9	31
124	Adsorption characteristics and mechanisms of O-Carboxymethyl chitosan on chalcopyrite and molybdenite. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 659-670	9.3	30
123	Coagulation of bitumen with kaolinite in aqueous solutions containing Ca ²⁺ , Mg ²⁺ and Fe ³⁺ : effect of citric acid. <i>Journal of Colloid and Interface Science</i> , 2008 , 324, 85-91	9.3	30
122	Synergistic effect of mineral surface constituents in dextrin adsorption. <i>International Journal of Mineral Processing</i> , 1994 , 42, 251-266		30
121	Interactions between fine and coarse hematite particles in aqueous suspension and their implications for flotation. <i>Minerals Engineering</i> , 2017 , 114, 74-81	4.9	29

120	The effect of non-polar oil on fine hematite flocculation and flotation using sodium oleate or hydroxamic acids as a collector. <i>Minerals Engineering</i> , 2018 , 119, 105-115	4.9	28
119	Influence of Nonswelling Clay Minerals (Illite, Kaolinite, and Chlorite) on Nonaqueous Solvent Extraction of Bitumen. <i>Energy & Fuels</i> , 2015 , 29, 4150-4159	4.1	27
118	Descriptor of catalytic activity of metal sulfides for oxygen reduction reaction: a potential indicator for mineral flotation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9650-9656	13	26
117	Migration of Fine Solids into Product Bitumen from Solvent Extraction of Alberta Oilsands. <i>Energy & Fuels</i> , 2014 , 28, 2925-2932	4.1	26
116	Adsorption of phosphorylated chitosan on mineral surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 656-663	5.1	26
115	Adsorption of asphaltenes on kaolinite as an irreversible process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 504, 280-286	5.1	26
114	Flotation separation of carbonate from sulfide minerals, II: mechanisms of flotation depression of sulfide minerals by thioglycolic acid and citric acid. <i>Minerals Engineering</i> , 2004 , 17, 865-878	4.9	25
113	Flotation separation of Cu-Mo sulfides by O-Carboxymethyl chitosan. <i>Minerals Engineering</i> , 2019 , 134, 202-205	4.9	23
112	Effect of citric acid on inhibiting hexadecane-quartz coagulation in aqueous solutions containing Ca ²⁺ , Mg ²⁺ and Fe ³⁺ ions. <i>International Journal of Mineral Processing</i> , 2009 , 92, 84-91		23
111	Electrochemical composite deposition of SnAgCu alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 164, 172-179	3.1	23
110	Upgrading a rutile concentrate produced from Athabasca oil sands tailings?. <i>Fuel</i> , 2003 , 82, 929-942	7.1	22
109	Anisotropic Polymer Adsorption on Molybdenite Basal and Edge Surfaces and Interaction Mechanism With Air Bubbles. <i>Frontiers in Chemistry</i> , 2018 , 6, 361	5	21
108	Xanthation-modified polyacrylamide and spectroscopic investigation of its adsorption onto mineral surfaces. <i>Minerals Engineering</i> , 2012 , 39, 1-8	4.9	20
107	Characterization of Athabasca oil sands froth treatment tailings for heavy mineral recovery. <i>Fuel</i> , 2006 , 85, 807-814	7.1	20
106	Effect of Swelling Clay Minerals (Montmorillonite and Illite-Smectite) on Nonaqueous Bitumen Extraction from Alberta Oil Sands. <i>Energy & Fuels</i> , 2016 , 30, 8083-8090	4.1	20
105	Dual polymer flocculants for mature fine tailings dewatering. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 3-10	2.3	19
104	Selective separation of copper-molybdenum sulfides using humic acids. <i>Minerals Engineering</i> , 2019 , 133, 43-46	4.9	19
103	Interfacial behavior and interaction mechanism of pentol/water interface stabilized with asphaltenes. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 341-349	9.3	19

102	Selective depression of sphalerite by chitosan in differential PbZn flotation. <i>International Journal of Mineral Processing</i> , 2013 , 122, 29-35		19
101	High resolution transmission electron microscopy study of clay mineral particles from streams of simulated water based bitumen extraction of Athabasca oil sands. <i>Applied Clay Science</i> , 2010 , 48, 466-474	5.2	19
100	Flotation separation of carbonate from sulfide minerals, I: flotation of single minerals and mineral mixtures. <i>Minerals Engineering</i> , 2004 , 17, 855-863	4.9	19
99	Separation of talc and molybdenite: challenges and opportunities. <i>Minerals Engineering</i> , 2019 , 143, 105923	4.3	18
98	Solution chemistry of carbonate minerals and its effects on the flotation of hematite with sodium oleate. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017 , 24, 736-744	3.1	18
97	Development of stable, non-cyanide solutions for electroplating Au-Sn alloy films. <i>Journal of Materials Science: Materials in Electronics</i> , 2006 , 17, 63-70	2.1	18
96	Removal of iron from sythetic copper leach solution using a hydroxy-oxime chelating resin. <i>Hydrometallurgy</i> , 2016 , 164, 154-158	4	17
95	Comparison of Different Methods To Determine the Surface Wettability of Fine Solids Isolated from Alberta Oil Sands. <i>Energy & Fuels</i> , 2015 , 29, 3556-3565	4.1	16
94	The acidity of caustic digested starch and its role in starch adsorption on mineral surfaces. <i>International Journal of Mineral Processing</i> , 2012 , 112-113, 94-100		16
93	Fabrication and Microstructures of Sequentially Electroplated Sn-Rich Au-Sn Alloy Solders. <i>Journal of Electronic Materials</i> , 2008 , 37, 837-844	1.9	16
92	Understanding the stabilization mechanism of bitumen-coated fine solids in organic media from non-aqueous extraction of oil sands. <i>Fuel</i> , 2019 , 242, 255-264	7.1	16
91	Spatially resolved organic coating on clay minerals in bitumen froth revealed by atomic force microscopy adhesion mapping. <i>Fuel</i> , 2017 , 191, 283-289	7.1	15
90	Sulfuric acid leaching of ocean manganese nodules using aromatic amines as reducing agents. <i>Minerals Engineering</i> , 2001 , 14, 539-542	4.9	15
89	Flotation of coarse and fine pyrochlore using octyl hydroxamic acid and sodium oleate. <i>Minerals Engineering</i> , 2019 , 132, 191-201	4.9	15
88	Fabrication and microstructures of sequentially electroplated Au-rich, eutectic Au/Sn alloy solder. <i>Journal of Materials Science: Materials in Electronics</i> , 2008 , 19, 1176-1183	2.1	14
87	Solvent removal from cyclohexane-extracted oil sands gangue. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 408-414	2.3	14
86	Role of water and fine solids in onset of coke formation during bitumen cracking. <i>Fuel</i> , 2016 , 166, 152-156	6.1	13
85	Development of online soft sensors and dynamic fundamental model-based process monitoring for complex sulfide ore flotation. <i>Minerals Engineering</i> , 2018 , 124, 10-27	4.9	13

84	Probing interactions between sphalerite and hydrophobic/hydrophilic surfaces: Effect of water chemistry. <i>Powder Technology</i> , 2017 , 320, 511-518	5.2	13
83	Heterogeneous Distribution of Adsorbed Bitumen on Fine Solids from Solvent-Based Extraction of Oil Sands Probed by AFM. <i>Energy & Fuels</i> , 2017 , 31, 8833-8842	4.1	13
82	Characterisation of petrologic end members of oil sands from the athabasca region, Alberta, Canada. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 1402-1415	2.3	13
81	Adsorption behaviour of sodium hexametaphosphate on pyrochlore and calcite. <i>Canadian Metallurgical Quarterly</i> , 2013 , 52, 473-478	0.9	13
80	Solid state interfacial reactions in electrodeposited Ni/Sn couples. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2010 , 17, 459-463	3.1	13
79	Techniques for treating slop oil in oil and gas industry: A short review. <i>Fuel</i> , 2020 , 279, 118482	7.1	13
78	Mitigating the negative effects of clay minerals on gold flotation by a lignosulfonate-based biopolymer. <i>Minerals Engineering</i> , 2018 , 126, 9-15	4.9	13
77	Rapid Dewatering and Consolidation of Concentrated Colloidal Suspensions: Mature Fine Tailings via Self-Healing Composite Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21610-21618	9.5	12
76	Surface Properties of Petrologic End-Members from Alberta Oil Sands and Their Relationship with Mineralogical and Chemical Composition. <i>Energy & Fuels</i> , 2014 , 28, 934-944	4.1	12
75	Aggregation of silica particles in non-aqueous media. <i>Fuel</i> , 2011 , 90, 2592-2597	7.1	12
74	Pre-concentration and residual bitumen removal from Athabasca oilsands froth treatment tailings by a Falcon centrifugal concentrator. <i>International Journal of Mineral Processing</i> , 2006 , 78, 220-230		12
73	Surface interaction mechanisms in mineral flotation: Fundamentals, measurements, and perspectives. <i>Advances in Colloid and Interface Science</i> , 2021 , 295, 102491	14.3	12
72	Influence of hydrothermal treatment on filterability of fine solids in bitumen froth. <i>Fuel</i> , 2016 , 180, 314-323	7.2	11
71	Study of Cyclohexane Diffusion in Athabasca Asphaltenes. <i>Energy & Fuels</i> , 2014 , 28, 1004-1011	4.1	11
70	Electroplating of gold from a solution containing tri-ammonium citrate and sodium sulphite. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 543-550	2.1	11
69	Sorption equilibrium and kinetics for cyclohexane, toluene, and water on Athabasca oil sands solids. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 220-230	2.3	10
68	Thermal and electrical stability of TaN x diffusion barriers for Cu metallization. <i>Journal of Materials Science</i> , 2013 , 48, 489-501	4.3	10
67	Dynamic Modeling and Real-Time Monitoring of Froth Flotation. <i>Minerals (Basel, Switzerland)</i> , 2015 , 5, 570-591	2.4	10

66	Influence of hydrophobicity distribution of particle mixtures on emulsion stabilization. <i>Journal of Colloid and Interface Science</i> , 2017 , 491, 179-189	9.3	9
65	Surface Electrical Behaviors of Apatite, Dolomite, Quartz, and Phosphate Ore. <i>Frontiers in Materials</i> , 2020 , 7,	4	9
64	Destabilization of fine solids suspended in oil media through wettability modification and water-assisted agglomeration. <i>Fuel</i> , 2019 , 254, 115623	7.1	9
63	Irreversible Adsorption of Asphaltenes on Kaolinite: Influence of Dehydroxylation. <i>Energy & Fuels</i> , 2017 , 31, 9328-9336	4.1	9
62	Eutectic and solid-state wafer bonding of silicon with gold. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 1748-1758	3.1	9
61	Molecular dynamics study of the dissolution mechanism of kaolinite basal surfaces in alkali media. <i>Applied Clay Science</i> , 2018 , 152, 29-37	5.2	9
60	Dewatering of Oil Sands Mature Fine Tailings by Dual Polymer Flocculation and Pressure Plate Filtration. <i>Energy & Fuels</i> , 2017 , 31, 6986-6995	4.1	8
59	New insights into the interfacial behavior and swelling of polymer inclusion membrane (PIM) during Zn (II) extraction process. <i>Chemical Engineering Science</i> , 2020 , 220, 115620	4.4	8
58	Effect of hydrolyzable metal cations on the coagulation between hexadecane and mineral particles. <i>Journal of Colloid and Interface Science</i> , 2007 , 310, 489-97	9.3	8
57	Characterization of Fine Solids in Athabasca Bitumen Froth before and after Hydrothermal Treatment. <i>Energy & Fuels</i> , 2016 , 30, 1965-1971	4.1	7
56	Modulation of Hydrophobic Interaction by Mediating Surface Nanoscale Structure and Chemistry, not Monotonically by Hydrophobicity. <i>Angewandte Chemie</i> , 2018 , 130, 12079-12084	3.6	7
55	Sample Preparation Method for Characterization of Fine Solids in Athabasca Oil Sands by Electron Microscopy. <i>Energy & Fuels</i> , 2011 , 25, 5158-5164	4.1	7
54	Influence of aggregation/dispersion state of hydrophilic particles on their entrainment in fine mineral particle flotation. <i>Minerals Engineering</i> , 2021 , 166, 106835	4.9	7
53	Real-time monitoring of entrainment using fundamental models and froth images. <i>Minerals Engineering</i> , 2018 , 124, 44-62	4.9	7
52	Bi-wetting property of oil sands fine solids determined by film flotation and water vapor adsorption. <i>Fuel</i> , 2017 , 197, 326-333	7.1	6
51	Effect of Inorganic Salt Contaminants on the Dissolution of Kaolinite Basal Surfaces in Alkali Media: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4937-4944	3.8	6
50	TaBh binary alloys as a potential diffusion barrier between Cu and Si: Stability and failure mechanism of the TaBh amorphous structures. <i>Acta Materialia</i> , 2013 , 61, 5365-5374	8.4	6
49	HEAVY MINERALS IN THE ATHABASCA OIL SANDS TAILINGS [POTENTIAL AND RECOVERY PROCESSES. <i>Canadian Metallurgical Quarterly</i> , 2003 , 42, 383-392	0.9	6

48	Bitumen Coating on Oil Sands Clay Minerals: A Review. <i>Energy & Fuels</i> , 2019 , 33, 5933-5943	4.1	5
47	Characterization of Iron-Bearing Particles in Athabasca Oil Sands. <i>Energy & Fuels</i> , 2012 , 26, 5036-5047	4.1	5
46	Formation, breakage, and re-growth of quartz flocs generated by non-ionic high molecular weight polyacrylamide. <i>Minerals Engineering</i> , 2020 , 157, 106546	4.9	5
45	Fine solids removal from non-aqueous extraction bitumen: A literature review. <i>Fuel</i> , 2021 , 288, 119727	7.1	5
44	Characterization of four petrologic end members from Alberta oil sands and comparison between different mines and sampling times. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 49-61	2.3	4
43	In situ TEM study of stability of TaRh _x diffusion barriers using a novel sample preparation method. <i>Micron</i> , 2014 , 58, 25-31	2.3	4
42	Mineralogy and Surface Chemistry of Alberta Oil Sands: Relevance to Nonaqueous Solvent Bitumen Extraction. <i>Energy & Fuels</i> , 2017 , 31, 8910-8924	4.1	4
41	Separation of ultra-fine hematite and quartz particles using asynchronous flocculation flotation. <i>Minerals Engineering</i> , 2021 , 164, 106817	4.9	4
40	Chemical Functionalization of ZnS: A Perspective from the Ligand-ZnS Bond Character. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6054-6061	3.8	3
39	Influence of molecular weight on polyacrylic acid flocculation of sub-micron titanium dioxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 603, 125195	5.1	3
38	Effect of particle size on the flocculation of sub-micron titanium dioxide by polyacrylic acid. <i>Minerals Engineering</i> , 2020 , 149, 106253	4.9	3
37	Development of a vision-based online soft sensor for oil sands flotation using support vector regression and its application in the dynamic monitoring of bitumen extraction. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 1532-1540	2.3	3
36	A simple process for electrodeposition of Sn-rich, Au ₅ Sn solder films. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 827-837	2.1	3
35	Notes on the adsorption of octyl hydroxamic acid on pyrochlore and calcite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 430, 91-94	5.1	3
34	Formation and transformation of metastable phases during electrodeposition and annealing of cobalt-iron alloy films. <i>Journal of Materials Science: Materials in Electronics</i> , 2011 , 22, 614-625	2.1	3
33	Electrodeposition of an Iron-Cobalt Phase Isostructural to β Mn. <i>ECS Transactions</i> , 2009 , 16, 141-153	1	3
32	Correlation between reducing power and electronic structure of organic reducing agents used in sulfuric acid leaching of polymetallic nodules. <i>International Journal of Mineral Processing</i> , 2002 , 65, 191-202		3
31	Effect of Charge Density of Reverse Emulsion Breaker on Demulsification Performance for Steam-Assisted Gravity Drainage (SAGD) Emulsions under High Temperature and High Pressure. <i>Energy & Fuels</i> , 2020 , 34, 13893-13902	4.1	3

30	A Janus facilitated transport membrane with asymmetric surface wettability and dense/porous structure: Enabling high stability and separation efficiency. <i>Journal of Membrane Science</i> , 2021 , 626, 119183	9.6	3
29	Probing the Interactions between Pickering Emulsion Droplets Stabilized with pH-Responsive Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 7320-7331	3.4	3
28	Entrainment of Gangue Minerals in Froth Flotation: Mechanisms, Models, Controlling Factors, and Abatement Techniques—Review. <i>Mining, Metallurgy and Exploration</i> , 2021 , 38, 673-692	1.1	3
27	Hydrodynamics of froth flotation and its effects on fine and ultrafine mineral particle flotation: A literature review. <i>Minerals Engineering</i> , 2021 , 173, 107220	4.9	3
26	Vacuum drying of cyclohexane from solvent-extracted oil sands gangue. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 459-466	2.3	2
25	Transport and removal of a solvent in porous media in the presence of bitumen, a highly viscous solute. <i>Chemical Engineering Science</i> , 2017 , 165, 229-239	4.4	2
24	Revelation of the Nature of the Ligand-PbS Bond and Its Implication on Chemical Functionalization of PbS. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22981-22988	3.8	2
23	Influence of structural Al and Si vacancies on the interaction of kaolinite basal surfaces with alkali cations: A molecular dynamics study. <i>Computational Materials Science</i> , 2017 , 140, 267-274	3.2	2
22	A Cryo-XPS Study of Triammonium Citrate-KAuCl ₄ -Na ₂ SO ₃ Electroplating Solutions for Pb-Free Solder Packaging. <i>Journal of Electronic Materials</i> , 2010 , 39, 1554-1561	1.9	2
21	High Molecular Weight Guar Gum Assisted Settling of Fine Solids in Diluted Bitumen: Effect of Solvents. <i>Petroleum Science</i> , 2021 ,	4.4	2
20	A lattice defect-inspired leaching strategy toward simultaneous recovery and separation of value metals from spent cathode materials. <i>Waste Management</i> , 2021 , 135, 40-46	8.6	2
19	Selective aggregation of fine quartz by polyaluminum chloride to mitigate its entrainment during fine and ultrafine mineral flotation. <i>Separation and Purification Technology</i> , 2021 , 279, 119606	8.3	2
18	Flocculation of quartz by a dual polymer system containing tannic acid and poly(ethylene oxide): Effect of polymer chemistry and hydrodynamic conditions. <i>Chemical Engineering Journal</i> , 2022 , 137403	14.7	2
17	Selective Aggregation of Hydrophilic Gangue Minerals in Froth Flotation. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1380, 1		1
16	Roles of the hydrophobic and hydrophilic groups of collectors in the flotation of different-sized mineral particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 637, 128262	5.1	1
15	Facile and scalable surface functionalization approach with small silane molecules for oil/water separation and demulsification of surfactant/asphaltenes-stabilized emulsions. <i>Separation and Purification Technology</i> , 2022 , 285, 120382	8.3	1
14	Effect of Carbon Dioxide on Asphaltene Precipitation from Bitumen-Heptane Mixtures. <i>Energy & Fuels</i> , 2020 , 34, 9483-9491	4.1	1
13	Destabilization of bitumen-coated fine solids in oil through water-assisted flocculation using biomolecules extracted from guar beans. <i>Petroleum Science</i> , 2020 , 17, 1726-1736	4.4	1

12	Using surface geopolymerization reactions to strengthen Athabasca oil sands mature fine tailings. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1640-1647	2.3	1
11	The filterability of different types of minerals and the role of swelling clays in the filtration of oil sands tailings. <i>Fuel</i> , 2022 , 316, 123395	7.1	0
10	Electrodeposition of bitumen-, asphaltene-, or maltene-coated kaolinite from cyclohexane suspensions. <i>Fuel</i> , 2021 , 122582	7.1	0
9	High-efficiency and durable removal of water-in-heavy oil emulsions enabled by delignified and carboxylated basswood with zwitterionic nanohydrogel coatings.. <i>Journal of Colloid and Interface Science</i> , 2021 , 612, 445-458	9.3	0
8	Effect of Carbon Dioxide on Paraffinic Bitumen Froth Treatment: Asphaltene Precipitation from a Commercial Bitumen Froth Sample. <i>ACS Omega</i> , 2021 , 6, 11918-11924	3.9	0
7	Water-mediated adhesion of oil sands on solid surfaces at low temperature. <i>Fuel</i> , 2022 , 320, 123778	7.1	0
6	Polysaccharide Applications in Mineral Processing 2015 , 5989-6010		
5	Response to Comments on Room temperature interfacial reactions in electrodeposited Au/Sn couples <i>Scripta Materialia</i> , 2009 , 61, 1095-1096	5.6	
4	Amorphous Ta-N as a Diffusion Barrier for Cu Metallization. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1335, 35		
3	Development of Simple Electrolytes for the Electrodeposition of Pb-Free, Sn-Based Alloy Solder Films. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 993, 1		
2	Beneficiation Studies of the Low-Grade Skarn Phosphate from Mactung Tungsten Deposit, Yukon, Canada. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 421	2.4	
1	Influence of Oil Sands Composition on Bitumen Quality During Non-Aqueous Bitumen Extraction from the Athabasca Deposit. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 268-280	2.3	