

Jan D Miller

List of Publications by Year in descending order

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papers

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57758

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5904
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#	ARTICLE	IF	CITATIONS
1	The Effect of Drop (Bubble) Size on Advancing and Receding Contact Angles for Heterogeneous and Rough Solid Surfaces as Observed with Sessile-Drop and Captive-Bubble Techniques. Journal of Colloid and Interface Science, 1996, 179, 37-50.	9.4	339
2	Natural halloysite nano-clay electrolyte for advanced all-solid-state lithium-sulfur batteries. Nano Energy, 2017, 31, 478-485.	16.0	306
3	Surface force measurements at the basal planes of ordered kaolinite particles. Journal of Colloid and Interface Science, 2010, 344, 362-371.	9.4	250
4	Contact Angles for Liquid Drops at a Model Heterogeneous Surface Consisting of Alternating and Parallel Hydrophobic/Hydrophilic Strips. Langmuir, 1996, 12, 1913-1922.	3.5	240
5	Carboxyl Stretching Vibrations of Spontaneously Adsorbed and LB-Transferred Calcium Carboxylates as Determined by FTIR Internal Reflection Spectroscopy. Journal of Colloid and Interface Science, 2002, 256, 41-52.	9.4	224
6	Particle interactions in kaolinite suspensions and corresponding aggregate structures. Journal of Colloid and Interface Science, 2011, 359, 95-103.	9.4	206
7	A REVIEW OF GOLD LEACHING IN ACID THIOUREA SOLUTIONS. Mineral Processing and Extractive Metallurgy Review, 2006, 27, 177-214.	5.0	129
8	Structural and Dynamic Properties of Concentrated Alkali Halide Solutions: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2007, 111, 209-217.	2.6	117
9	Adsorption and surface tension analysis of concentrated alkali halide brine solutions. Minerals Engineering, 2009, 22, 263-271.	4.3	113
10	The Significance of Interfacial Water Structure in Soluble Salt Flotation Systems. Journal of Colloid and Interface Science, 2001, 235, 150-161.	9.4	108
11	Surface charge and wetting characteristics of layered silicate minerals. Advances in Colloid and Interface Science, 2012, 179-182, 43-50.	14.7	100
12	Ultrasound-assisted leaching of cobalt and lithium from spent lithium-ion batteries. Ultrasonics Sonochemistry, 2018, 48, 88-95.	8.2	94
13	Oleate Adsorption at an Apatite Surface Studied by Ex-Situ FTIR Internal Reflection Spectroscopy. Journal of Colloid and Interface Science, 1998, 202, 462-476.	9.4	90
14	FTIR Study of Deuterated Montmorillonites: Structural Features Relevant to Pillared Clay Stability. Clays and Clay Minerals, 1992, 40, 92-102.	1.3	86
15	Analysis of Interfacial Water at a Hydrophilic Silicon Surface by in-Situ FTIR/Internal Reflection Spectroscopy. Langmuir, 1996, 12, 4176-4184.	3.5	86
16	Attraction between hydrophobic surfaces studied by atomic force microscopy. International Journal of Mineral Processing, 2003, 72, 215-225.	2.6	85
17	Surface charge of alkali halide particles as determined by laser-Doppler electrophoresis. Langmuir, 1992, 8, 1464-1469.	3.5	80
18	The surface state of hematite and its wetting characteristics. Journal of Colloid and Interface Science, 2016, 477, 16-24.	9.4	76

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19	Water structure in aqueous solutions of alkali halide salts: FTIR spectroscopy of the OD stretching band. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 572-580.	9.4	71
20	Surface force measurements at kaolinite edge surfaces using atomic force microscopy. <i>Journal of Colloid and Interface Science</i> , 2014, 420, 35-40.	9.4	71
21	Selective froth flotation of PVC from PVC/PET mixtures for the plastics recycling industry. <i>Polymer Engineering and Science</i> , 1998, 38, 1378-1386.	3.1	68
22	Surface Characteristics of Kaolinite and Other Selected Two Layer Silicate Minerals. <i>Canadian Journal of Chemical Engineering</i> , 2007, 85, 617-624.	1.7	67
23	Interaction of calcium dioleate collector colloids with calcite and fluorite surfaces as revealed by AFM force measurements and molecular dynamics simulation. <i>International Journal of Mineral Processing</i> , 2006, 81, 166-177.	2.6	65
24	Liberation-limited grade/recovery curves from X-ray micro CT analysis of feed material for the evaluation of separation efficiency. <i>International Journal of Mineral Processing</i> , 2009, 93, 48-53.	2.6	65
25	Crushed ore agglomeration and its control for heap leach operations. <i>Minerals Engineering</i> , 2013, 41, 53-70.	4.3	62
26	Bubble/Particle Contact Time in the Analysis of Coal Flotation. <i>Coal Preparation</i> , 1988, 5, 147-166.	0.5	61
27	Particle damage and exposure analysis in HPGR crushing of selected copper ores for column leaching. <i>Minerals Engineering</i> , 2011, 24, 1478-1487.	4.3	59
28	Verification of the internal reflection spectroscopy adsorption density equation by Fourier transform infrared spectroscopy analysis of transferred Langmuir-Blodgett films. <i>Langmuir</i> , 1993, 9, 3159-3165.	3.5	56
29	Recent advances in the application of X-ray computed tomography in the analysis of heap leaching systems. <i>Minerals Engineering</i> , 2012, 35, 75-86.	4.3	55
30	The chemistry of gold solvent extraction from alkaline cyanide solution by solvating extractants. <i>Hydrometallurgy</i> , 1991, 27, 29-46.	4.3	54
31	FTIR analysis of water structure and its influence on the flotation of arcanite (K ₂ SO ₄) and epsomite (MgSO ₄ ·7H ₂ O). <i>International Journal of Mineral Processing</i> , 2013, 122, 36-42.	2.6	54
32	The nature of hematite depression with corn starch in the reverse flotation of iron ore. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 337-349.	9.4	54
33	THE LINE/PSEUDO-LINE TENSION IN THREE-PHASE SYSTEMS. <i>Particulate Science and Technology</i> , 1992, 10, 1-20.	2.1	52
34	Surface chemistry aspects of bastnaesite flotation with octyl hydroxamate. <i>International Journal of Mineral Processing</i> , 2014, 133, 29-38.	2.6	52
35	Thermal Treatment of Low-Rank Coal and Its Relationship to Flotation Response. <i>Coal Preparation</i> , 1988, 6, 1-16.	0.5	51
36	Thiocyanate hydrometallurgy for the recovery of gold. Part I: Chemical and thermodynamic considerations. <i>Hydrometallurgy</i> , 2012, 113-114, 1-9.	4.3	51

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37	Interfacial water structure and the wetting of mineral surfaces. International Journal of Mineral Processing, 2016, 156, 62-68.	2.6	51
38	Coadsorption Phenomena in the Separation of Pyrite from Coal by Reverse Flotation. Coal Preparation, 1984, 1, 21-38.	0.5	50
39	Detection, separation, and quantification of unlabeled silica nanoparticles in biological media using sedimentation field-flow fractionation. Journal of Nanoparticle Research, 2009, 11, 981-988.	1.9	50
40	Interfacial Water Structure and Surface Charge of Selected Alkali Chloride Salt Crystals in Saturated Solutions: A Molecular Dynamics Modeling Study. Journal of Physical Chemistry C, 2007, 111, 10013-10022.	3.1	49
41	Molecular dynamics simulation and analysis of interfacial water at selected sulfide mineral surfaces under anaerobic conditions. International Journal of Mineral Processing, 2014, 128, 55-67.	2.6	49
42	Advanced Nanoclay-Based Nanocomposite Solid Polymer Electrolyte for Lithium Iron Phosphate Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8954-8960.	8.0	49
43	Direct measurement of particle-bubble interaction forces using atomic force microscopy. International Journal of Mineral Processing, 2008, 89, 65-70.	2.6	47
44	States of Adsorbed Dodecyl Amine and Water at a Silica Surface As Revealed by Vibrational Spectroscopy. Langmuir, 2010, 26, 3407-3414.	3.5	47
45	Significance of particle aggregation in the reverse flotation of kaolinite from bauxite ore. Minerals Engineering, 2015, 78, 58-65.	4.3	47
46	The surface features of lead activation in amyl xanthate flotation of quartz. International Journal of Mineral Processing, 2016, 151, 33-39.	2.6	47
47	Adhesion between Hydrocarbon Particles and Silica Surfaces with Different Degrees of Hydration As Determined by the AFM Colloidal Probe Technique. Langmuir, 2003, 19, 5311-5317.	3.5	45
48	Molecular features of the air/carbonate solution interface. Journal of Colloid and Interface Science, 2008, 318, 271-277.	9.4	45
49	Some physicochemical aspects of water-soluble mineral flotation. Advances in Colloid and Interface Science, 2016, 235, 190-200.	14.7	45
50	Effect of ultrasound on bubble-particle interaction in quartz-amine flotation system. Ultrasonics Sonochemistry, 2019, 52, 446-454.	8.2	45
51	The significance of collector colloid adsorption phenomena in the fluorite/oleate flotation system as revealed by FTIR/IRS and solution chemistry analysis. International Journal of Mineral Processing, 1996, 48, 197-216.	2.6	44
52	Recent Trends in the Processing of Enargite Concentrates. Mineral Processing and Extractive Metallurgy Review, 2014, 35, 283-367.	5.0	44
53	Selective Solvation Extraction of Gold from Alkaline Cyanide Solution by Alkyl Phosphorus Esters. Separation Science and Technology, 1987, 22, 487-502.	2.5	43
54	Surface Tension of Toluene-Extracted Bitumens from Utah Oil Sands as Determined by Wilhelmy Plate and Contact Angle Techniques. Energy & Fuels, 1994, 8, 700-704.	5.1	42

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55	Understanding the role of ion interactions in soluble salt flotation with alkylammonium and alkylsulfate collectors. <i>Advances in Colloid and Interface Science</i> , 2011, 163, 1-22.	14.7	42
56	Isoelectric Point of Fluorite by Direct Force Measurements Using Atomic Force Microscopy. <i>Langmuir</i> , 2006, 22, 1403-1405.	3.5	41
57	Water structure and its influence on the flotation of carbonate and bicarbonate salts. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 545-551.	9.4	40
58	Bastnaesite flotation chemistry issues associated with alkyl phosphate collectors. <i>Minerals Engineering</i> , 2018, 127, 286-295.	4.3	40
59	Interaction Forces between a Calcium Dioleate Sphere and Calcite/Fluorite Surfaces and Their Significance in Flotation. <i>Langmuir</i> , 2003, 19, 10523-10530.	3.5	39
60	The effect of cosurfactants on sodium dodecyl sulfate micellar structures at a graphite surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 272, 157-163.	4.7	39
61	Fundamental issues on the influence of starch in amine adsorption by quartz. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 522, 642-651.	4.7	39
62	Indirect Electrochemical Cr(III) Oxidation in KOH Solutions at an Au Electrode: The Role of Oxygen Reduction Reaction. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7531-7537.	2.6	38
63	Lauryl phosphate adsorption in the flotation of Bastnaesite, (Ce,La)FCO ₃ . <i>Journal of Colloid and Interface Science</i> , 2017, 490, 825-833.	9.4	38
64	Watershed Functions Applied to a 3D Image Segmentation Problem for the Analysis of Packed Particle Beds. <i>Particle and Particle Systems Characterization</i> , 2006, 23, 237-245.	2.3	37
65	Effect of surface oxidation on interfacial water structure at a pyrite (100) surface as studied by molecular dynamics simulation. <i>International Journal of Mineral Processing</i> , 2015, 139, 64-76.	2.6	37
66	Kinetics of 18-Carbon Carboxylate Adsorption at the Fluorite Surface. <i>Langmuir</i> , 1997, 13, 4377-4382.	3.5	36
67	Molecular Orientation of Langmuir-Blodgett and Self-Assembled Monolayers of Stearate Species at a Fluorite Surface As Described by Linear Dichroism Theory. <i>The Journal of Physical Chemistry</i> , 1995, 99, 10272-10279.	2.9	35
68	Collectorless flotation of oxidized pyrite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 561, 349-356.	4.7	35
69	A Review of X-Ray Computed Tomography and Its Applications in Mineral Processing. <i>Mineral Processing and Extractive Metallurgy Review</i> , 1990, 7, 1-18.	5.0	34
70	Selective attachment and spreading of hydroxamic acid-alcohol collector mixtures in phosphate flotation. <i>International Journal of Mineral Processing</i> , 2006, 78, 122-130.	2.6	34
71	Surface chemistry features in the flotation of KCl. <i>Minerals Engineering</i> , 2010, 23, 365-373.	4.3	34
72	Molecular dynamics simulations of metal-cyanide complexes: Fundamental considerations in gold hydrometallurgy. <i>Hydrometallurgy</i> , 2011, 106, 64-70.	4.3	34

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73	Polysaccharide Depressants for the Reverse Flotation of Iron Ore. Transactions of the Indian Institute of Metals, 2016, 69, 83-95.	1.5	34
74	Aluminum Leaching from Calcined Coal Waste Using Hydrochloric Acid Solution. Mineral Processing and Extractive Metallurgy Review, 2012, 33, 391-403.	5.0	33
75	Anisotropic Surface Charging of Chlorite Surfaces. Clays and Clay Minerals, 2013, 61, 152-164.	1.3	33
76	Biocompatible and biodegradable solid polymer electrolytes for high voltage and high temperature lithium batteries. RSC Advances, 2017, 7, 24856-24863.	3.6	33
77	Dispersion behavior and attachment of high internal phase water-in-oil emulsion droplets during fine coal flotation. Fuel, 2019, 253, 273-282.	6.4	33
78	Wetting characteristics of spodumene surfaces as influenced by collector adsorption. Minerals Engineering, 2019, 130, 117-128.	4.3	32
79	Water-Based Bitumen Recovery from Diluent-Conditioned Oil Sands. Canadian Journal of Chemical Engineering, 2004, 82, 978-985.	1.7	31
80	Crystal lattice imaging of the silica and alumina faces of kaolinite using atomic force microscopy. Journal of Colloid and Interface Science, 2010, 352, 75-80.	9.4	30
81	Modulated Cr(III) oxidation in KOH solutions at a gold electrode: Competition between disproportionation and stepwise electron transfer. Electrochimica Acta, 2011, 56, 8311-8318.	5.2	30
82	Influence of ionic strength on the surface charge and interaction of layered silicate particles. Journal of Colloid and Interface Science, 2014, 432, 270-277.	9.4	30
83	GOLD ADSORPTION FROM ALKALINE AUROCYANIDE SOLUTION BY NEUTRAL POLYMERIC ADSORBENTS. Solvent Extraction and Ion Exchange, 1986, 4, 531-546.	2.0	29
84	Evaluation of stucco binder for agglomeration in the heap leaching of copper ore. Minerals Engineering, 2011, 24, 886-893.	4.3	29
85	The role of gas bubbles in bitumen release during oil sand digestion. Fuel, 1995, 74, 1150-1155.	6.4	28
86	Bubble attachment time and FTIR analysis of water structure in the flotation of sylvite, bischofite and carnallite. Minerals Engineering, 2011, 24, 108-114.	4.3	28
87	Aggregation of Fullerol C ₆₀ (OH) ₂₄ Nanoparticles as Revealed Using Flow Field-Flow Fractionation and Atomic Force Microscopy. Langmuir, 2010, 26, 16063-16070.	3.5	27
88	An Update to "Recent Trends in the Processing of Enargite Concentrates". Mineral Processing and Extractive Metallurgy Review, 2014, 35, 390-422.	5.0	27
89	Effects of grinding environment and lattice impurities on spodumene flotation. Transactions of Nonferrous Metals Society of China, 2019, 29, 1527-1537.	4.2	27
90	In-Situ Internal Reflection Spectroscopy for the Study of Surfactant Adsorption Reactions Using Reactive Internal Reflection Elements. Separation Science and Technology, 1990, 25, 2133-2155.	2.5	26

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91	Research and Development Activities for the Recovery of Gold From Alkaline Cyanide Solutions. Mineral Processing and Extractive Metallurgy Review, 1990, 6, 143-190.	5.0	26
92	Wetting of selected fluorite surfaces by water. Surface Innovations, 2015, 3, 39-48.	2.3	26
93	Multi-scale features including water content of polymer induced kaolinite floc structures. Minerals Engineering, 2017, 101, 20-29.	4.3	26
94	Selection of Gravity Separators for the Beneficiation of the Uljin Tin Ore. Mineral Processing and Extractive Metallurgy Review, 2017, 38, 54-61.	5.0	26
95	Solvent extraction of Cu(II) from sulfate solutions containing Zn(II) and Fe(III) using an interdigital micromixer. Hydrometallurgy, 2018, 177, 116-122.	4.3	26
96	The hydrophobic surface state of talc as influenced by aluminum substitution in the tetrahedral layer. Journal of Colloid and Interface Science, 2019, 536, 737-748.	9.4	26
97	Adsorption of carbonate and bicarbonate salts at the air-brine interface. International Journal of Mineral Processing, 2006, 81, 149-158.	2.6	25
98	Thiocyanate hydrometallurgy for the recovery of gold. Part IV: Solvent extraction of gold with Alamine 336. Hydrometallurgy, 2012, 113-114, 25-30.	4.3	25
99	Acid bake-leach process for the treatment of enargite concentrates. Hydrometallurgy, 2012, 119-120, 30-39.	4.3	25
100	X-ray CT imaging and finite element computations of the elastic properties of a rigid organic foam compared to experimental measurements: insights into foam variability. Journal of Materials Science, 2015, 50, 4012-4024.	3.7	25
101	Adsorption of corn starch molecules at hydrophobic mineral surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 546, 194-202.	4.7	25
102	Wetting Characteristics and Stability of Langmuir-Blodgett Carboxylate Monolayers at the Surfaces of Calcite and Fluorite. Langmuir, 1995, 11, 3491-3499.	3.5	22
103	The effect of an external magnetic field on cationic flotation of quartz from magnetite. Minerals Engineering, 2010, 23, 813-818.	4.3	22
104	States of coadsorption for oleate and dodecylamine at selected spodumene surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 313-321.	4.7	21
105	Fluid Flow in Hydrocyclones: A Critical Review. Mineral Processing and Extractive Metallurgy Review, 1992, 11, 211-244.	5.0	20
106	Examination of Adsorbed Oleate Layers at a Fluorite Surface by Contact Angle Measurements and FT-IR/IRS Spectroscopy. Langmuir, 1997, 13, 1345-1351.	3.5	19
107	Molecular features of water films created with bubbles at silica surfaces. Surface Innovations, 2015, 3, 20-26.	2.3	19
108	Effect of Surface Charge and Elemental Composition on the Swelling and Delamination of Montmorillonite Nanoclays Using Sedimentation Field-flow Fractionation and Mass Spectroscopy. Clays and Clay Minerals, 2015, 63, 457-468.	1.3	19

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109	Collector Chemistry for Bastnaesite Flotation “ Recent Developments. Mineral Processing and Extractive Metallurgy Review, 2019, 40, 370-379.	5.0	19
110	Smithsonite flotation with lauryl phosphate. Minerals Engineering, 2020, 147, 106155.	4.3	19
111	Further study of grain boundary fracture in the breakage of single multiphase particles using X-ray microtomography procedures. Minerals Engineering, 2013, 46-47, 89-94.	4.3	18
112	Attachment, Coalescence, and Spreading of Carbon Dioxide Nanobubbles at Pyrite Surfaces. Langmuir, 2018, 34, 14317-14327.	3.5	18
113	Silica surface states and their wetting characteristics. Surface Innovations, 2020, 8, 145-157.	2.3	18
114	Thiocyanate hydrometallurgy for the recovery of gold. Part V: Process alternatives for solution concentration and purification. Hydrometallurgy, 2012, 113-114, 31-38.	4.3	17
115	Simulation of cluster formation from kaolinite suspensions. International Journal of Mineral Processing, 2015, 145, 38-47.	2.6	16
116	The pyrometallurgy of enargite: A literature update. International Journal of Mineral Processing, 2016, 157, 103-110.	2.6	16
117	Coal Washability Analysis by X-ray Computed Tomography. Coal Preparation, 1991, 9, 107-119.	0.5	15
118	Recent Developments in the Beneficiation of Chinese Bauxite. Mineral Processing and Extractive Metallurgy Review, 2010, 31, 111-119.	5.0	15
119	Thiocyanate hydrometallurgy for the recovery of goldPart III: Thiocyanate stability. Hydrometallurgy, 2012, 113-114, 19-24.	4.3	15
120	Solvent extraction and stripping of copper in a Y-Y type microchannel reactor. Minerals Engineering, 2018, 127, 296-304.	4.3	15
121	Surface chemistry features of spodumene with isomorphous substitution. Minerals Engineering, 2020, 146, 106139.	4.3	15
122	Characteristics of dextrin adsorption by elemental sulfur. Journal of Colloid and Interface Science, 2008, 317, 18-25.	9.4	14
123	Significance of liberation characteristics in the fatty acid flotation of Florida phosphate rock. Minerals Engineering, 2009, 22, 244-253.	4.3	14
124	Three-dimensional analysis of particulates in mineral processing systems by cone beam X-ray microtomography. Mining, Metallurgy and Exploration, 2004, 21, 113-124.	0.8	13
125	Application of high-resolution X-ray microcomputed tomography for coal washability analysis. Minerals Engineering, 2018, 124, 137-148.	4.3	13
126	Dimensionless Analysis of Process Variables in Air-Sparged Hydrocyclone (ASH) Flotation of Fine Coal. Coal Preparation, 1991, 9, 169-184.	0.5	12

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127	Wettability of kaolinite basal planes based on surface force measurements using atomic force microscopy. Mining, Metallurgy and Exploration, 2012, 29, 13-19.	0.8	12
128	Reaction of enargite (Cu ₃ As ₄) in hot concentrated sulfuric acid under an inert atmosphere. Part I: Enargite concentrate. International Journal of Mineral Processing, 2014, 128, 68-78.	2.6	12
129	Effect of Oxygen Functional Groups on the Surface Properties and Flotation Response of Fine Coal, Comparison of Rank with Oxidation. International Journal of Coal Preparation and Utilization, 2021, 41, 290-306.	2.1	12
130	Contrasting thermally-induced structural and microstructural evolution of aluminosilicates with tubular and planar arrangements: Case study of halloysite and kaolinite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 613, 126106.	4.7	12
131	Characterization of Particle Size and Composition of Respirable Coal Mine Dust. Minerals (Basel), 2020, 10, 1414.	2.0	12
132	Non-equilibrium molecular dynamics simulation to evaluate the effect of confinement on fluid flow in silica nanopores. Fuel, 2022, 317, 123373.	6.4	12
133	Characterization of pyrite in products from the reverse flotation of coal. Coal Preparation, 1986, 2, 243-261.	0.5	11
134	Comparison of Methods for the Measurement of Linear Grade Distributions in Liberation Analysis. Particle and Particle Systems Characterization, 1987, 4, 78-82.	2.3	11
135	Froth Characteristics in Air-sparged Hydrocyclone Flotation. Mineral Processing and Extractive Metallurgy Review, 1989, 5, 307-327.	5.0	11
136	Liquid/air interfacial structure of alcohol-octyl hydroxamic acid mixtures: a study by sum-frequency spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 2711-2717.	3.9	11
137	Adsorption and self-assembly of octyl hydroxamic acid at a fluorite surface as revealed by sum-frequency vibrational spectroscopy. Journal of Colloid and Interface Science, 2008, 325, 398-403.	9.4	11
138	Surface chemistry considerations in the flotation of rare-earth and other semisoluble salt minerals. Mining, Metallurgy and Exploration, 2013, 30, 24-37.	0.8	11
139	Specific anion effects on adsorption and packing of octadecylamine hydrochloride molecules at the air/water interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 544-551.	4.7	11
140	Solvation Extraction and Electrodeposition of Gold from Cyanide Solutions. Jom, 1986, 38, 35-40.	1.9	9
141	The Surface Charge of KCl as Influenced by Crystal Lattice Defects. Journal of Colloid and Interface Science, 1994, 163, 137-144.	9.4	9
142	Characterization and analysis of Porous, Brittle solid structures by X-ray micro computed tomography. Jom, 2010, 62, 86-89.	1.9	9
143	The stability of selected sulfide minerals in sulfuric acid and acidic thiocyanate solutions. Electrochimica Acta, 2012, 78, 133-138.	5.2	9
144	Effect of Cu ²⁺ activation on interfacial water structure at the sphalerite surface as studied by molecular dynamics simulation. International Journal of Mineral Processing, 2015, 145, 66-76.	2.6	9

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145	Hydration effects in quaternary amine extraction systems. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1970, 1, 2531-2535.	2.1	9
146	Carbon Dioxide Flotation of Fine Coal. Coal Preparation, 1985, 2, 69-73.	0.5	8
147	Improved Pyrite Rejection by Chemically-Modified Fine Coal Flotation. Coal Preparation, 1989, 6, 151-166.	0.5	8
148	Analysis and visualization of enargite and tennantite roasting using Cu-As-S-O system predominance volume diagrams. Vacuum, 2018, 156, 78-90.	3.5	8
149	A critical review of wetting and adhesion phenomena in the preparation of polymer-mineral composites. Mining, Metallurgy and Exploration, 1995, 12, 197-204.	0.8	7
150	Development of an On-line Coal Washability Analysis System Using X-ray Computed Tomography. Coal Preparation, 2000, 21, 383-409.	0.5	7
151	Flotation chemistry of soluble salt minerals: from ion hydration to colloid adsorption. Mining, Metallurgy and Exploration, 2014, 31, 1-20.	0.8	7
152	Thermodynamic Analysis of the Cu-As-S-(O) System Relevant to Sulfuric Acid Baking of Enargite at 473 K (200 °C). Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 568-581.	2.1	7
153	Spatial characterization of heterogeneous nanopore surfaces from XCT scans of Niobrara shale. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 572, 129-137.	4.7	7
154	Lauryl Phosphate Flotation Chemistry in Barite Flotation. Minerals (Basel, Switzerland), 2020, 10, 280.	2.0	7
155	Characterization of Natural Consolidated Halloysite Nanotube Structures. Minerals (Basel, Switzerland), 2020, 10, 280.	2.0	7
156	Characterization and simulation of graphite edge surfaces for the analysis of carbonaceous material separation from sulfide ores by flotation. Minerals Engineering, 2022, 182, 107590.	4.3	7
157	HOLD-UP VOLUME AND MEAN RESIDENCE TIME MEASUREMENTS IN THE AIR-SPARGED HYDROCYCLONE. Particulate Science and Technology, 1987, 5, 409-420.	2.1	6
158	Characterization of Washability of Some Mexican Coals. Coal Preparation, 1999, 20, 227-245.	0.5	6
159	Long-range attractive forces and energy barriers in de-inking flotation: AFM studies of interactions between polyethylene and toner. Journal of Adhesion Science and Technology, 2000, 14, 1829-1843.	2.6	6
160	Cone beam X-ray microtomography – a new facility for three-dimensional analysis of multiphase materials. Mining, Metallurgy and Exploration, 2002, 19, 65-71.	0.8	6
161	Contribution of fluid inclusions to variations in solution composition for sphalerite/quartz samples from the Yunnan Province, PRC. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 287-293.	4.7	6
162	Reaction of enargite (Cu ₃ AsS ₄) in hot concentrated sulfuric acid under an inert atmosphere. Part II: High-quality enargite. International Journal of Mineral Processing, 2014, 128, 79-85.	2.6	6

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163	Understanding the Agglomeration Behavior of Selected Copper Ores Using Statistical Design of Experiments. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2015, 36, 13-25.	5.0	6
164	The effect of carbon dioxide and nitrogen on pyrite surface properties and flotation response. <i>Minerals Engineering</i> , 2019, 144, 106048.	4.3	6
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