Jan D Miller

List of Publications by Year
in descending order

208 papers	6,995 citations	57631 44 h-index	82410 72 g-index
214 all docs	214 docs citations	214 times ranked	5904 citing authors

#	Article	IF	Citations
1	Nanopore networks in colloidal silica assemblies characterized by XCT for confined fluid flow modeling. Journal of Petroleum Science and Engineering, 2022, 208, 109780.	2.1	2
2	X-ray Computed Tomography Evaluation of Crushed Copper Sulfide Ore for Pre-concentration by Ore Sorting. Mining, Metallurgy and Exploration, 2022, 39, 13-21.	0.4	3
3	Non-equilibrium molecular dynamics simulation to evaluate the effect of confinement on fluid flow in silica nanopores. Fuel, 2022, 317, 123373.	3.4	12
4	Characterization and simulation of graphite edge surfaces for the analysis of carbonaceous material separation from sulfide ores by flotation. Minerals Engineering, 2022, 182, 107590.	1.8	7
5	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.	1.2	12
6	Contrasting thermally-induced structural and microstructural evolution of alumino-silicates with tubular and planar arrangements: Case study of halloysite and kaolinite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 613, 126106.	2.3	12
7	Characterization of Particle Size and Composition of Respirable Coal Mine Dust. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.8	12
8	Simulation and analysis of slip flow of water at hydrophobic silica surfaces of nanometer slit pores. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127032.	2.3	5
9	AFM Slip Length Measurements for Water at Selected Phyllosilicate Surfaces. Colloids and Interfaces, 2021, 5, 44.	0.9	2
10	Characterization of Natural Consolidated Halloysite Nanotube Structures. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td	0.8	7
11	Smithsonite flotation with lauryl phosphate. Minerals Engineering, 2020, 147, 106155.	1.8	19
12	X-Ray computed tomography for 3D analysis of gangue mineral rejection by gravity preconcentration of sulfidic gold ores. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2020, 129, 49-63.	0.1	4
13	Surface chemistry features of spodumene with isomorphous substitution. Minerals Engineering, 2020, 146, 106139.	1.8	15
14	Lauryl Phosphate Flotation Chemistry in Barite Flotation. Minerals (Basel, Switzerland), 2020, 10, 280.	0.8	7
15	Silica surface states and their wetting characteristics. Surface Innovations, 2020, 8, 145-157.	1.4	18
16	Collector Chemistry for Bastnaesite Flotation â€“ Recent Developments. Mineral Processing and Extractive Metallurgy Review, 2019, 40, 370-379.	2.6	19
17	Effects of grinding environment and lattice impurities on spodumene flotation. Transactions of Nonferrous Metals Society of China, 2019, 29, 1527-1537.	1.7	27
18	The effect of carbon dioxide and nitrogen on pyrite surface properties and flotation response. Minerals Engineering, 2019, 144, 106048.	1.8	6

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19	Quantitative bin flow analysis of particle discharge using X-ray radiography. Powder Technology, 2019, 344, 693-705.	2.1	1
20	Dielectric properties and microwave heating characteristics of Huimin siderite ore. Journal of Microwave Power and Electromagnetic Energy, 2019, 53, 128-141.	0.4	2
21	Dispersion behavior and attachment of high internal phase water-in-oil emulsion droplets during fine coal flotation. Fuel, 2019, 253, 273-282.	3.4	33
22	Energy Dissipation and Fragmentation of Granite Core During High Velocity Impact. Mining, Metallurgy and Exploration, 2019, 36, 839-849.	0.4	3
23	Spatial characterization of heterogeneous nanopore surfaces from XCT scans of Niobrara shale. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 572, 129-137.	2.3	7
24	Advanced Nanoclay-Based Nanocomposite Solid Polymer Electrolyte for Lithium Iron Phosphate Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8954-8960.	4.0	49
25	Interfacial Water Features at Airâ€“Water Interfaces as Influenced by Charged Surfactants. Journal of Physical Chemistry B, 2019, 123, 2397-2404.	1.2	6
26	The Influence of Polysaccharides on Film Stability and Bubble Attachment at the Talc Surface. Mining, Metallurgy and Exploration, 2019, 36, 71-80.	0.4	3
27	Effect of ultrasound on bubble-particle interaction in quartz-amine flotation system. Ultrasonics Sonochemistry, 2019, 52, 446-454.	3.8	45
28	Wetting characteristics of spodumene surfaces as influenced by collector adsorption. Minerals Engineering, 2019, 130, 117-128.	1.8	32
29	Liberation Limited Dolomite Rejection from Pebble Phosphate in Gravity Concentration. Mining, Metallurgy and Exploration, 2019, 36, 285-301.	0.4	0
30	Collectorless flotation of oxidized pyrite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 561, 349-356.	2.3	35
31	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.	5.0	26
32	Characterization of Breakage and Washability of ROM Coal using X-ray Computed Tomography. International Journal of Coal Preparation and Utilization, 2019, 39, 145-158.	1.2	4
33	Adsorption of corn starch molecules at hydrophobic mineral surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 546, 194-202.	2.3	25
34	Solvent extraction of Cu(II) from sulfate solutions containing Zn(II) and Fe(III) using an interdigital micromixer. Hydrometallurgy, 2018, 177, 116-122.	1.8	26
35	The nature of hematite depression with corn starch in the reverse flotation of iron ore. Journal of Colloid and Interface Science, 2018, 524, 337-349.	5.0	54
36	Attachment, Coalescence, and Spreading of Carbon Dioxide Nanobubbles at Pyrite Surfaces. Langmuir, 2018, 34, 14317-14327.	1.6	18

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37	States of coadsorption for oleate and dodecylamine at selected spodumene surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 313-321.	2.3	21
38	Solvent extraction and stripping of copper in a Y-Y type microchannel reactor. Minerals Engineering, 2018, 127, 296-304.	1.8	15
39	Ultrasound-assisted leaching of cobalt and lithium from spent lithium-ion batteries. Ultrasonics Sonochemistry, 2018, 48, 88-95.	3.8	94
40	Analysis and visualization of enargite and tennantite roasting using Cu-As-S-O system predominance volume diagrams. Vacuum, 2018, 156, 78-90.	1.6	8
41	Application of high-resolution X-ray microcomputed tomography for coal washability analysis. Minerals Engineering, 2018, 124, 137-148.	1.8	13
42	Bastnaesite flotation chemistry issues associated with alkyl phosphate collectors. Minerals Engineering, 2018, 127, 286-295.	1.8	40
43	Multi-scale features including water content of polymer induced kaolinite floc structures. Minerals Engineering, 2017, 101, 20-29.	1.8	26
44	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.	2.3	11
45	Biocompatible and biodegradable solid polymer electrolytes for high voltage and high temperature lithium batteries. RSC Advances, 2017, 7, 24856-24863.	1.7	33
46	Lauryl phosphate adsorption in the flotation of Bastnaesite, (Ce,La)FCO3. Journal of Colloid and Interface Science, 2017, 490, 825-833.	5.0	38
47	Fundamental issues on the influence of starch in amine adsorption by quartz. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 642-651.	2.3	39
48	Selection of Gravity Separators for the Beneficiation of the Uljin Tin Ore. Mineral Processing and Extractive Metallurgy Review, 2017, 38, 54-61.	2.6	26
49	Natural halloysite nano-clay electrolyte for advanced all-solid-state lithium-sulfur batteries. Nano Energy, 2017, 31, 478-485.	8.2	306
50	The surface features of lead activation in amyl xanthate flotation of quartz. International Journal of Mineral Processing, 2016, 151, 33-39.	2.6	47
51	Polysaccharide Depressants for the Reverse Flotation of Iron Ore. Transactions of the Indian Institute of Metals, 2016, 69, 83-95.	0.7	34
52	The pyrometallurgy of enargite: A literature update. International Journal of Mineral Processing, 2016, 157, 103-110.	2.6	16
53	The surface state of hematite and its wetting characteristics. Journal of Colloid and Interface Science, 2016, 477, 16-24.	5.0	76
54	Some physicochemical aspects of water-soluble mineral flotation. Advances in Colloid and Interface Science, 2016, 235, 190-200.	7.0	45

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55	Interfacial water structure and the wetting of mineral surfaces. International Journal of Mineral Processing, 2016, 156, 62-68.	2.6	51
56	Significance of Graphitic Surfaces in Aurodicyanide Adsorption by Activated Carbon: Experimental and Computational Approach. , 2016, , 683-690.		0
57	Wetting of selected fluorite surfaces by water. Surface Innovations, 2015, 3, 39-48.	1.4	26
58	Molecular features of water films created with bubbles at silica surfaces. Surface Innovations, 2015, 3, 20-26.	1.4	19
59	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.	0.6	19
60	Effect of Cu2+ 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
61	Effect of surface oxidation on interfacial water structure at a pyrite (100) surface as studied by molecular dynamics simulation. International Journal of Mineral Processing, 2015, 139, 64-76.	2.6	37
62	Significance of particle aggregation in the reverse flotation of kaolinite from bauxite ore. Minerals Engineering, 2015, 78, 58-65.	1.8	47
63	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.	1.7	25
64	Simulation of cluster formation from kaolinite suspensions. International Journal of Mineral Processing, 2015, 145, 38-47.	2.6	16
65	Understanding the Agglomeration Behavior of Selected Copper Ores Using Statistical Design of Experiments. Mineral Processing and Extractive Metallurgy Review, 2015, 36, 13-25.	2.6	6
66	Flotation chemistry of soluble salt minerals: from ion hydration to colloid adsorption. Mining, Metallurgy and Exploration, 2014, 31, 1-20.	0.4	7
67	Understanding the agglomeration behavior of nickel laterite and gold ores using statistical design of experiments. Mining, Metallurgy and Exploration, 2014, 31, 21-33.	0.4	1
68	Effects of sulfuric acid dosage on the baking of an enargite concentrate. Mining, Metallurgy and Exploration, 2014, 31, 193-199.	0.4	0
69	Recent Trends in the Processing of Enargite Concentrates. Mineral Processing and Extractive Metallurgy Review, 2014, 35, 283-367.	2.6	44
70	Reaction of enargite (Cu3AsS4) 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
71	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
72	Thermodynamic Analysis of the Cu-As-S-(O) System Relevant to Sulfuric Acid Baking of Enargite at 473ÂK (200ÂÂ°C). Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 568-581.	1.0	7

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73	Surface force measurements at kaolinite edge surfaces using atomic force microscopy. Journal of Colloid and Interface Science, 2014, 420, 35-40.	5.0	71
74	An Update to â€œRecent Trends in the Processing of Enargite Concentratesâ€• Mineral Processing and Extractive Metallurgy Review, 2014, 35, 390-422.	2.6	27
75	Influence of ionic strength on the surface charge and interaction of layered silicate particles. Journal of Colloid and Interface Science, 2014, 432, 270-277.	5.0	30
76	Surface chemistry aspects of bastnaesite flotation with octyl hydroxamate. International Journal of Mineral Processing, 2014, 133, 29-38.	2.6	52
77	Reaction of enargite (Cu3AsS4) 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
78	FTIR analysis of water structure and its influence on the flotation of arcanite (K2SO4) and epsomite (MgSO4Â·7H2O). International Journal of Mineral Processing, 2013, 122, 36-42.	2.6	54
79	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.	1.8	18
80	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.	2.3	6
81	Crushed ore agglomeration and its control for heap leach operations. Minerals Engineering, 2013, 41, 53-70.	1.8	62
82	Acid bakeâ€“leach process for the treatment of arsenopyrite, tennantite, and tetrahedrite. International Journal of Mineral Processing, 2013, 124, 128-131.	2.6	4
83	Anisotropic Surface Charging of Chlorite Surfaces. Clays and Clay Minerals, 2013, 61, 152-164.	0.6	33
84	The application of machine learning to the problem of classifying voxels in X-ray microtomographic scans of mineralogical samples. , 2013, , .		0
85	Surface chemistry considerations in the flotation of rare-earth and other semisoluble salt minerals. Mining, Metallurgy and Exploration, 2013, 30, 24-37.	0.4	11
86	Characterization of rare-earth resources at Mountain Pass, CA using high-resolution X-ray microtomography (HRXMT). Mining, Metallurgy and Exploration, 2013, 30, 10-17.	0.4	1
87	Surface charge and wetting characteristics of layered silicate minerals. Advances in Colloid and Interface Science, 2012, 179-182, 43-50.	7.0	100
88	Indirect Electrochemical Cr(III) Oxidation in KOH Solutions at an Au Electrode: The Role of Oxygen Reduction Reaction. Journal of Physical Chemistry B, 2012, 116, 7531-7537.	1.2	38
89	The stability of selected sulfide minerals in sulfuric acid and acidic thiocyanate solutions. Electrochimica Acta, 2012, 78, 133-138.	2.6	9
90	Aluminum Leaching from Calcined Coal Waste Using Hydrochloric Acid Solution. Mineral Processing and Extractive Metallurgy Review, 2012, 33, 391-403.	2.6	33

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91	Recent advances in the application of X-ray computed tomography in the analysis of heap leaching systems. Minerals Engineering, 2012, 35, 75-86.	1.8	55
92	Wettability of kaolinite basal planes based on surface force measurements using atomic force microscopy. Mining, Metallurgy and Exploration, 2012, 29, 13-19.	0.4	12
93	Evaluation of sulfuric acid baking and leaching of enargite concentrates. Mining, Metallurgy and Exploration, 2012, 29, 97-102.	0.4	2
94	Thiocyanate hydrometallurgy for the recovery of gold. Part I: Chemical and thermodynamic considerations. Hydrometallurgy, 2012, 113-114, 1-9.	1.8	51
95	Thiocyanate hydrometallurgy for the recovery of gold. Part IV: Solvent extraction of gold with Alamine 336. Hydrometallurgy, 2012, 113-114, 25-30.	1.8	25
96	Thiocyanate hydrometallurgy for the recovery of gold. Part V: Process alternatives for solution concentration and purification. Hydrometallurgy, 2012, 113-114, 31-38.	1.8	17
97	Thiocyanate hydrometallurgy for the recovery of goldPart III: Thiocyanate stability. Hydrometallurgy, 2012, 113-114, 19-24.	1.8	15
98	Acid bake-leach process for the treatment of enargite concentrates. Hydrometallurgy, 2012, 119-120, 30-39.	1.8	25
99	Molecular Dynamics Simulation Analysis of Solutions and Surfaces in Nonsulfide Flotation Systems. , 2012, , 107-156.		3
100	Evaluation of Adhesion Forces in Alginateâ€“Filler System Using an AFM Colloidal Probe Technique. Journal of Adhesion Science and Technology, 2011, 25, 1159-1173.	1.4	4
101	Production of trona concentrates using high-intensity dry magnetic separation followed by flotation. Mining, Metallurgy and Exploration, 2011, 28, 55-61.	0.4	2
102	Bubble attachment time and FTIR analysis of water structure in the flotation of sylvite, bischofite and carnallite. Minerals Engineering, 2011, 24, 108-114.	1.8	28
103	Evaluation of stucco binder for agglomeration in the heap leaching of copper ore. Minerals Engineering, 2011, 24, 886-893.	1.8	29
104	Particle damage and exposure analysis in HPGR crushing of selected copper ores for column leaching. Minerals Engineering, 2011, 24, 1478-1487.	1.8	59
105	Modulated Cr(III) oxidation in KOH solutions at a gold electrode: Competition between disproportionation and stepwise electron transfer. Electrochimica Acta, 2011, 56, 8311-8318.	2.6	30
106	Understanding the role of ion interactions in soluble salt flotation with alkylammonium and alkylsulfate collectors. Advances in Colloid and Interface Science, 2011, 163, 1-22.	7.0	42
107	Molecular dynamics simulations of metalâ€“cyanide complexes: Fundamental considerations in gold hydrometallurgy. Hydrometallurgy, 2011, 106, 64-70.	1.8	34
108	Particle interactions in kaolinite suspensions and corresponding aggregate structures. Journal of Colloid and Interface Science, 2011, 359, 95-103.	5.0	206

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109	Characterization and analysis of Porous, Brittle solid structures by X-ray micro computed tomography. Jom, 2010, 62, 86-89.	0.9	9
110	Surface chemistry features in the flotation of KCl. Minerals Engineering, 2010, 23, 365-373.	1.8	34
111	The effect of an external magnetic field on cationic flotation of quartz from magnetite. Minerals Engineering, 2010, 23, 813-818.	1.8	22
112	Surface force measurements at the basal planes of ordered kaolinite particles. Journal of Colloid and Interface Science, 2010, 344, 362-371.	5.0	250
113	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.	5.0	30
114	Recent Developments in the Beneficiation of Chinese Bauxite. Mineral Processing and Extractive Metallurgy Review, 2010, 31, 111-119.	2.6	15
115	States of Adsorbed Dodecyl Amine and Water at a Silica Surface As Revealed by Vibrational Spectroscopy. Langmuir, 2010, 26, 3407-3414.	1.6	47
116	Aggregation of Fullerol C₆₀(OH)₂₄ Nanoparticles as Revealed Using Flow Field-Flow Fractionation and Atomic Force Microscopy. Langmuir, 2010, 26, 16063-16070.	1.6	27
117	Significance of liberation characteristics in the fatty acid flotation of Florida phosphate rock. Minerals Engineering, 2009, 22, 244-253.	1.8	14
118	Adsorption and surface tension analysis of concentrated alkali halide brine solutions. Minerals Engineering, 2009, 22, 263-271.	1.8	113
119	Liberation-limited grade/recovery curves from X-ray micro CT analysis of feed material for the evaluation of separation efficiency. International Journal of Mineral Processing, 2009, 93, 48-53.	2.6	65
120	Detection, separation, and quantification of unlabeled silica nanoparticles in biological media using sedimentation field-flow fractionation. Journal of Nanoparticle Research, 2009, 11, 981-988.	0.8	50
121	Characteristics of dextrin adsorption by elemental sulfur. Journal of Colloid and Interface Science, 2008, 317, 18-25.	5.0	14
122	Molecular features of the air/carbonate solution interface. Journal of Colloid and Interface Science, 2008, 318, 271-277.	5.0	45
123	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.	5.0	11
124	Direct measurement of particleâ€“bubble interaction forces using atomic force microscopy. International Journal of Mineral Processing, 2008, 89, 65-70.	2.6	47
125	Interfacial Water Structure and Surface Charge of Selected Alkali Chloride Salt Crystals in Saturated Solutions:â€‰ A Molecular Dynamics Modeling Study. Journal of Physical Chemistry C, 2007, 111, 10013-10022.	1.5	49
126	Structural and Dynamic Properties of Concentrated Alkali Halide Solutions:Â A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2007, 111, 209-217.	1.2	117

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127	Water structure and its influence on the flotation of carbonate and bicarbonate salts. Journal of Colloid and Interface Science, 2007, 314, 545-551.	5.0	40
128	Surface Characteristics of Kaolinite and Other Selected Two Layer Silicate Minerals. Canadian Journal of Chemical Engineering, 2007, 85, 617-624.	0.9	67
129	Isoelectric Point of Fluorite by Direct Force Measurements Using Atomic Force Microscopy. Langmuir, 2006, 22, 1403-1405.	1.6	41
130	Watershed Functions Applied to a 3D Image Segmentation Problem for the Analysis of Packed Particle Beds. Particle and Particle Systems Characterization, 2006, 23, 237-245.	1.2	37
131	The effect of cosurfactants on sodium dodecyl sulfate micellar structures at a graphite surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 272, 157-163.	2.3	39
132	Selective attachment and spreading of hydroxamic acidâ€“alcohol collector mixtures in phosphate flotation. International Journal of Mineral Processing, 2006, 78, 122-130.	2.6	34
133	Interaction of calcium dioleate collector colloids with calcite and fluorite surfaces as revealed by AFM force measurements and molecular dynamics simulation. International Journal of Mineral Processing, 2006, 81, 166-177.	2.6	65
134	A REVIEW OF GOLD LEACHING IN ACID THIOUREA SOLUTIONS. Mineral Processing and Extractive Metallurgy Review, 2006, 27, 177-214.	2.6	129
135	Adsorption of carbonate and bicarbonate salts at the airâ€“brine interface. International Journal of Mineral Processing, 2006, 81, 149-158.	2.6	25
136	Water structure in aqueous solutions of alkali halide salts: FTIR spectroscopy of the OD stretching band. Journal of Colloid and Interface Science, 2005, 287, 572-580.	5.0	71
137	Air-sparged hydrocyclone (ASH) technology for cyanide recovery. Mining, Metallurgy and Exploration, 2005, 22, 135-139.	0.4	2
138	Three-dimensional analysis of particulates in mineral processing systems by cone beam X-ray microtomography. Mining, Metallurgy and Exploration, 2004, 21, 113-124.	0.4	13
139	Liquid/air interfacial structure of alcoholâ€“octyl hydroxamic acid mixtures: a study by sum-frequency spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 2711-2717.	2.0	11
140	Waterâ€Based Bitumen Recovery from Diluentâ€Conditioned Oil Sands. Canadian Journal of Chemical Engineering, 2004, 82, 978-985.	0.9	31
141	Bubble-Particle Interaction Measured by Atomic Force Microscopy. Journal of Chemical Engineering of Japan, 2004, 37, 231-237.	0.3	6
142	Attraction between hydrophobic surfaces studied by atomic force microscopy. International Journal of Mineral Processing, 2003, 72, 215-225.	2.6	85
143	Interaction Forces between a Calcium Dioleate Sphere and Calcite/Fluorite Surfaces and Their Significance in Flotation. Langmuir, 2003, 19, 10523-10530.	1.6	39
144	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.	1.6	45

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145	Surfactant adsorption density calculation from Fourier transform infrared external reflection spectroscopy (FTIR/ERS). Journal of Chemical Physics, 2003, 119, 13068-13076.	1.2	2
146	Cone beam X-ray microtomography â€" a new facility for three-dimensional analysis of multiphase materials. Mining, Metallurgy and Exploration, 2002, 19, 65-71.	0.4	6
147	Evaluation of a CT-based coal washability analysis system under simulated on-line conditions. Mining, Metallurgy and Exploration, 2002, 19, 9-16.	0.4	1
148	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.	5.0	224
149	Conformation of chemisorbed oleate at a calcite surface. Mining, Metallurgy and Exploration, 2001, 18, 38-44.	0.4	0
150	Dispersion of ultrafine alumina in modifier solution â€"the role of polar interfacial interaction. Central South University, 2001, 8, 18-23.	0.5	0
151	The Significance of Interfacial Water Structure in Soluble Salt Flotation Systems. Journal of Colloid and Interface Science, 2001, 235, 150-161.	5.0	108
152	Limitation of the Young-DuprÃ© Equation in the Analysis of Adhesion Forces Involving Surfactant Solutions. Journal of Adhesion, 2000, 74, 361-371.	1.8	1
153	Interaction Forces Between a Coal Surface and a Polystyrene Sphere in the Presence of Cationic and Anionic Surfactants as Measured Using Atomic Force Microscopy. Coal Preparation, 2000, 21, 337-353.	0.5	5
154	Development of an On-line Coal Washability Analysis System Using X-ray Computed Tomography. Coal Preparation, 2000, 21, 383-409.	0.5	7
155	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.	1.4	6
156	Characterization of Washability of Some Mexican Coals. Coal Preparation, 1999, 20, 227-245.	0.5	6
157	Oleate Adsorption at an Apatite Surface Studied by Ex-Situ FTIR Internal Reflection Spectroscopy. Journal of Colloid and Interface Science, 1998, 202, 462-476.	5.0	90
158	Selective froth flotation of PVC from PVC/PET mixtures for the plastics recycling industry. Polymer Engineering and Science, 1998, 38, 1378-1386.	1.5	68
159	Kinetics of 18-Carbon Carboxylate Adsorption at the Fluorite Surface. Langmuir, 1997, 13, 4377-4382.	1.6	36
160	Examination of Adsorbed Oleate Layers at a Fluorite Surface by Contact Angle Measurements and FT-IR/IRS Spectroscopy. Langmuir, 1997, 13, 1345-1351.	1.6	19
161	Analysis of Interfacial Water at a Hydrophilic Silicon Surface by in-Situ FTIR/Internal Reflection Spectroscopy. Langmuir, 1996, 12, 4176-4184.	1.6	86
162	Contact Angles for Liquid Drops at a Model Heterogeneous Surface Consisting of Alternating and Parallel Hydrophobic/Hydrophilic Strips. Langmuir, 1996, 12, 1913-1922.	1.6	240

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163	Recovery and Characterization of Macroscopic Fossil Resins from Western Coals. ACS Symposium Series, 1996, , 279-287.	0.5	3
164	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.	5.0	339
165	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
166	The role of gas bubbles in bitumen release during oil sand digestion. Fuel, 1995, 74, 1150-1155.	3.4	28
167	A critical review of wetting and adhesion phenomena in the preparation of polymer-mineral composites. Mining, Metallurgy and Exploration, 1995, 12, 197-204.	0.4	7
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