William M Skinner

List of Publications by Year
in descending order

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188 papers	7,272 citations	47 h-index	72 g-index
		47006	82547
189 all docs	189 docs citations	189 times ranked	7264 citing authors

#	Article	IF	Citations
1	Trace and minor elements in sphalerite: A LA-ICPMS study. Geochimica Et Cosmochimica Acta, 2009, 73, 4761-4791.	3.9	581
2	XPS of sulphide mineral surfaces: metal-deficient, polysulphides, defects and elemental sulphur. Surface and Interface Analysis, 1999, 28, 101-105.	1.8	352
3	Invisible gold in arsenian pyrite and arsenopyrite from a multistage Archaean gold deposit: Sunrise Dam, Eastern Goldfields Province, Western Australia. Mineralium Deposita, 2009, 44, 765-791.	4.1	227
4	The effects of activated carbon surface features on the reactive adsorption of carbamazepine and sulfamethoxazole. Carbon, 2014, 80, 419-432.	10.3	154
5	The role of surface sulfur species in the inhibition of pyrrhotite dissolution in acid conditions. Geochimica Et Cosmochimica Acta, 1998, 62, 1555-1565.	3.9	120
6	The effect of biochar feedstock, pyrolysis temperature, and application rate on the reduction of ammonia volatilisation from biochar-amended soil. Science of the Total Environment, 2018, 627, 942-950.	8.0	105
7	Assessment of the frequency and nature of erroneous x-ray photoelectron spectroscopy analyses in the scientific literature. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	105
8	Irradiation Effects During XPS Studies of Cu(II) Activation of Zinc Sulphide. Surface and Interface Analysis, 1996, 24, 620-626.	1.8	88
9	Surface chemistry and rheological behaviour of titania pigment suspensions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 155, 27-41.	4.7	88
10	Analytical characterisation of nanoscale zero-valent iron: A methodological review. Analytica Chimica Acta, 2016, 903, 13-35.	5.4	87
11	A comparison of the dissolution behavior of troilite with other iron(II) sulfides; implications of structure. Geochimica Et Cosmochimica Acta, 2003, 67, 831-843.	3.9	85
12	Elemental Content of Airway Surface Liquid from Infants with Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 1998, 157, 10-14.	5.6	81
13	Geochemical effects of oxidation products and framboidal pyrite oxidation in acid mine drainage prediction techniques. Applied Geochemistry, 2004, 19, 1953-1974.	3.0	76
14	A study of mechanisms affecting molybdenite recovery in a bulk copper/molybdenum flotation circuit. International Journal of Mineral Processing, 2009, 93, 256-266.	2.6	76
15	Quantum Dots for Electro-Optic Devices. ACS Nano, 2011, 5, 5291-5295.	14.6	76
16	XPS identification of bulk hole defects and itinerant Fe 3d electrons in natural troilite (FeS). Geochimica Et Cosmochimica Acta, 2004, 68, 2259-2263.	3.9	75
17	Copper and arsenate co-sorption at the mineralâ€“water interfaces of goethite and jarosite. Journal of Colloid and Interface Science, 2008, 322, 399-413.	9.4	75
18	Diaminotetrazine based mesoporous C₃N₆ with a well-ordered 3D cubic structure and its excellent photocatalytic performance for hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 18183-18192.	10.3	75

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19	Copper(II) activation and cyanide deactivation of zinc sulphide under mildly alkaline conditions. Applied Surface Science, 1997, 108, 333-344.	6.1	73
20	Concomitant reduction and immobilization of chromium in relation to its bioavailability in soils. Environmental Science and Pollution Research, 2015, 22, 8969-8978.	5.3	73
21	A mechanism to explain sudden changes in rates and products for pyrrhotite dissolution in acid solution. Geochimica Et Cosmochimica Acta, 2001, 65, 1-12.	3.9	72
22	High-resolution valence-band XPS spectra of the nonconductors quartz and olivine. Physical Review B, 2005, 72, .	3.2	71
23	Replacement of pyrrhotite by pyrite and marcasite under hydrothermal conditions up to 220 ÂC: An experimental study of reaction textures and mechanisms. American Mineralogist, 2011, 96, 1878-1893.	1.9	71
24	An experimental study of the mechanism of the replacement of magnetite by pyrite up to 300Â°C. Geochimica Et Cosmochimica Acta, 2010, 74, 5610-5630.	3.9	69
25	The influence of pyrite content on the flotation of chalcopyrite/pyrite mixtures. Minerals Engineering, 2014, 55, 87-95.	4.3	68
26	Observation of the oxidation of galena using Raman spectroscopy. International Journal of Mineral Processing, 2000, 60, 199-211.	2.6	67
27	Organic and inorganic discrimination of ballpoint pen inks by ToF-SIMS and multivariate statistics. Applied Surface Science, 2010, 256, 2155-2163.	6.1	67
28	ToF-SIMS analysis of elemental distributions in human hair. Science of the Total Environment, 2005, 338, 213-227.	8.0	66
29	A study of flotation characteristics of monazite, hematite, and quartz using anionic collectors. International Journal of Mineral Processing, 2017, 158, 55-62.	2.6	66
30	In Situ ATR FTIR Studies of SO₄ Adsorption on Goethite in the Presence of Copper Ions. Environmental Science & Technology, 2008, 42, 9191-9196.	10.0	61
31	Formation of As(II)-pyrite during experimental replacement of magnetite under hydrothermal conditions. Geochimica Et Cosmochimica Acta, 2013, 100, 1-10.	3.9	60
32	Proliferation of Faulty Materials Data Analysis in the Literature. Microscopy and Microanalysis, 2020, 26, 1-2.	0.4	59
33	Advanced Analysis of Metal Distributions in Human Hair. Environmental Science & Technology, 2006, 40, 3423-3428.	10.0	58
34	Localization and speciation of arsenic and trace elements in rice tissues. Chemosphere, 2009, 76, 529-535.	8.2	57
35	SIMS studies of oxidation mechanisms and polysulfide formation in reacted sulfide surfaces. Minerals Engineering, 2000, 13, 857-870.	4.3	56
36	Ab initioand x-ray photoemission spectroscopy study of the bulk and surface electronic structure of pyrite (100) with implications for reactivity. Physical Review B, 2005, 72, .	3.2	55

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37	Silicon diatom frustules as nanostructured photoelectrodes. Chemical Communications, 2014, 50, 10441.	4.1	55
38	Polyethyleneimine for copper absorption II: kinetics, selectivity and efficiency from seawater. RSC Advances, 2015, 5, 51883-51890.	3.6	54
39	Galvanic interaction between grinding media and arsenopyrite and its effect on flotation: Part II. Effect of grinding on flotation. International Journal of Mineral Processing, 2006, 78, 198-213.	2.6	52
40	Physico-chemical modification of natural mordenite-clinoptilolite zeolites and their enhanced CO2 adsorption capacity. Microporous and Mesoporous Materials, 2020, 294, 109871.	4.4	52
41	XPS and ToF-SIMS study of a chalcopyrite-pyrite-sphalerite mixture treated with xanthate and sodium bisulphite. Surface and Interface Analysis, 2005, 37, 699-709.	1.8	51
42	Application of time of flight secondary ion mass spectrometry to the in situ analysis of ballpoint pen inks on paper. Forensic Science International, 2009, 193, 42-46.	2.2	51
43	Preliminary synchrotron analysis of lead in hair from a lead smelter worker. Chemosphere, 2005, 58, 1385-1390.	8.2	50
44	Statistical comparison of surface species in flotation concentrates and tails from TOF-SIMS evidence. Minerals Engineering, 2000, 13, 1377-1394.	4.3	49
45	Correlation between copper-activated pyrite flotation and surface species: Effect of pulp oxidation potential. Minerals Engineering, 2005, 18, 1208-1213.	4.3	49
46	NiO Nanofibers as a Candidate for a Nanophotocathode. Nanomaterials, 2014, 4, 256-266.	4.1	49
47	Improved acid neutralisation capacity assessment of iron carbonates by titration and theoretical calculation. Applied Geochemistry, 2004, 19, 687-694.	3.0	48
48	Polyethyleneimine for copper absorption: kinetics, selectivity and efficiency in artificial seawater. RSC Advances, 2014, 4, 25063-25066.	3.6	48
49	Depressing mechanisms of sodium bisulphite in the collectorless flotation of copper-activated sphalerite. International Journal of Mineral Processing, 2005, 76, 43-53.	2.6	47
50	Characterisation of 0.22 caliber rimfire gunshot residues by time-of-flight secondary ion mass spectrometry (TOF-SIMS): a preliminary study. Forensic Science International, 2001, 119, 72-81.	2.2	46
51	Preconcentration strategies in the processing of nickel laterite ores Part 1: Literature review. Minerals Engineering, 2015, 79, 261-268.	4.3	45
52	Atmospheric acid leaching mechanisms and kinetics and rheological studies of a low grade saprolitic nickel laterite ore. Hydrometallurgy, 2016, 160, 26-37.	4.3	45
53	Kinetic factors for oxidative and non-oxidative dissolution of iron sulfides. Minerals Engineering, 2000, 13, 1149-1159.	4.3	44
54	Examination of the proposition that Cu(II) can be required for charge neutrality in a sulfide lattice â€" Cu in tetrahedrites and sphalerite. Canadian Journal of Chemistry, 2007, 85, 767-781.	1.1	44

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55	Rheology of aging aqueous muscovite clay dispersions. Chemical Engineering Science, 2011, 66, 119-127.	3.8	43
56	Diethylenetriamine depression of Cu-activated pyrite hydrophobised by xanthate. Minerals Engineering, 2014, 57, 36-42.	4.3	43
57	Alkaline cyanide leaching of refractory gold flotation concentrates and bio-oxidised products: The effect of process variables. Hydrometallurgy, 2018, 179, 79-93.	4.3	43
58	XPS andab initiocalculation of surface states of sulfide minerals: pyrite, chalcopyrite and molybdenite. Molecular Simulation, 2006, 32, 1207-1212.	2.0	42
59	Sulfur-Containing Chitin and Chitosan Derivatives as Trace Metal Adsorbents: A Review. Critical Reviews in Environmental Science and Technology, 2013, 43, 1741-1794.	12.8	42
60	A study of selective flotation recovery of rare earth oxides from hematite and quartz using hydroxamic acid as a collector. Advanced Powder Technology, 2018, 29, 1886-1899.	4.1	42
61	The Occurrence and Incorporation of Copper and Zinc in Hair and their Potential Role as Bioindicators: A Review. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2007, 10, 611-622.	6.5	41
62	Depression mechanisms of sodium bisulphite in the xanthate-induced flotation of copper activated sphalerite. International Journal of Mineral Processing, 2006, 79, 61-75.	2.6	40
63	Early development of Al, Ca, and Na compositional gradients in labradorite leached in pH 2 HCl solutions. Geochimica Et Cosmochimica Acta, 2001, 65, 715-727.	3.9	39
64	Restoring the floatability of oxidised sulfides using sulfidisation. International Journal of Mineral Processing, 2007, 84, 108-117.	2.6	39
65	Direct Measurement of van der Waals and Diffuse Double-Layer Forces between Titanium Dioxide Surfaces Produced by Atomic Layer Deposition. Journal of Physical Chemistry C, 2012, 116, 7838-7847.	3.1	39
66	Recovery of rare earth elements minerals from iron oxideâ€“silicate rich tailings â€“ Part 1: Magnetic separation. Minerals Engineering, 2019, 136, 50-61.	4.3	39
67	Surface Analytical Studies of Oxidation and Collector Adsorption in Sulfide Mineral Flotation. Topics in Applied Physics, 2003, , 3-62.	0.8	38
68	Cu adsorption on pyrite (100): Ab initio and spectroscopic studies. Surface Science, 2007, 601, 5794-5799.	1.9	38
69	Loading and release of a model protein from porous silicon powders. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3361-3366.	1.8	38
70	Effect of visible light and electrode wetting on the capacitive performance of S- and N-doped nanoporous carbons: Importance of surface chemistry. Carbon, 2014, 78, 540-558.	10.3	37
71	Ab initio and XPS studies of pyrite (100) surface states. Radiation Physics and Chemistry, 2006, 75, 1855-1860.	2.8	36
72	Effect of oxidation potential and zinc sulphate on the separation of chalcopyrite from pyrite. International Journal of Mineral Processing, 2006, 80, 169-176.	2.6	36

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73	Discrimination of pencil markings on paper using elemental analysis: An initial investigation. Forensic Science International, 2008, 175, 123-129.	2.2	36
74	Optimization of operating parameters for coarse sphalerite flotation in the HydroFloat fluidised-bed separator. Minerals Engineering, 2013, 50-51, 99-105.	4.3	36
75	Detachment of coarse composite sphalerite particles from bubbles in flotation: Influence of xanthate collector type and concentration. Minerals Engineering, 2015, 71, 73-84.	4.3	36
76	pH-mediated interfacial chemistry and particle interactions in aqueous muscovite dispersions. Chemical Engineering Journal, 2009, 152, 406-414.	12.7	35
77	Electronic environments in carrollite, CuCo2S4, determined by soft X-ray photoelectron and absorption spectroscopy. Geochimica Et Cosmochimica Acta, 2009, 73, 4452-4467.	3.9	35
78	CuInS₂/ZnS nanocrystals as sensitisers for NiO photocathodes. Journal of Materials Chemistry A, 2015, 3, 13324-13331.	10.3	35
79	Tellurides from Sunrise Dam gold deposit, Yilgarn Craton, Western Australia: a new occurrence of nagyÃ¡gite. Mineralogy and Petrology, 2007, 91, 249-270.	1.1	34
80	Species formed at cuprite fracture surfaces; observation of O 1s surface core level shift. Surface Science, 2009, 603, 537-545.	1.9	34
81	Flotation of coarse composite particles in mechanical cell vs. the fluidised-bed separator (The) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.3	34
82	ToF-SIMS as a New Method to Determine the Contact Angle of Mineral Surfaces. Langmuir, 2010, 26, 8122-8130.	3.5	33
83	Inferring wettability of heterogeneous surfaces by ToF-SIMS. Journal of Colloid and Interface Science, 2008, 320, 563-568.	9.4	32
84	Surface study of the effect of sulphite ions on copper-activated pyrite pre-treated with xanthate. Minerals Engineering, 2003, 16, 601-608.	4.3	31
85	Leaching behaviour of mechano-chemically activated bio-oxidised refractory flotation gold concentrates. Powder Technology, 2018, 331, 258-269.	4.2	31
86	Time-of-Flight Secondary Ion Mass Spectrometry Analysis of Hair from Archaeological Remains. European Journal of Mass Spectrometry, 2003, 9, 589-597.	1.0	30
87	Applications of synchrotron radiation in forensic trace evidence analysis. Talanta, 2005, 67, 286-303.	5.5	30
88	Synthesis and Characterization of Thiolated Chitosan Beads for Removal of Cu(II) and Cd(II) from Wastewater. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	29
89	A study of the feasibility of upgrading rare earth elements minerals from iron-oxide-silicate rich tailings using Knelson concentrator and Wilfley shaking table. Powder Technology, 2019, 344, 897-913.	4.2	29
90	Calcium distributions in human hair by ToF-SIMS. Biochimica Et Biophysica Acta - General Subjects, 2003, 1624, 1-5.	2.4	28

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91	Synchrotron XPS studies of collector adsorption and co-adsorption on gold and gold: silver alloy surfaces. International Journal of Mineral Processing, 2009, 92, 162-168.	2.6	28
92	Stirred milling kinetics of siliceous goethitic nickel laterite for selective comminution. Minerals Engineering, 2013, 49, 109-115.	4.3	28
93	Recovery of rare earth elements minerals from iron oxideâ€“silicate rich tailings â€“ Part 2: Froth flotation separation. Minerals Engineering, 2019, 142, 105888.	4.3	28
94	A Comparison of Washing Methods for Hair Mineral Analysis: Internal Versus External Effects. Biological Trace Element Research, 2012, 150, 10-14.	3.5	27
95	Muscovite clay mineral particle interactions in aqueous media. Powder Technology, 2012, 219, 228-238.	4.2	27
96	Selective flotation of rare earth oxides from hematite and quartz mixtures using oleic acid as a collector. International Journal of Mineral Processing, 2017, 169, 60-69.	2.6	27
97	Agglomeration and column leaching behaviour of nickel laterite ores: Effect of ore mineralogy and particle size distribution. Hydrometallurgy, 2014, 146, 29-39.	4.3	26
98	Time of flight secondary ion mass spectrometry studies of the distribution of metals between the soil, rhizosphere and roots of Populus tremuloides Minchx growing in forest soil. Chemosphere, 2004, 54, 1121-1125.	8.2	25
99	Critical contact angle for coarse sphalerite flotation in a fluidised-bed separator vs. a mechanically agitated cell. Minerals Engineering, 2014, 60, 51-59.	4.3	25
100	Preconcentration strategies in the processing of nickel laterite ores part 2: Laboratory experiments. Minerals Engineering, 2015, 79, 269-278.	4.3	25
101	Differential flotation of pyrite and arsenopyrite: Effect of hydrogen peroxide and collector type. Minerals Engineering, 2021, 163, 106808.	4.3	24
102	Decoupling pyrite and arsenopyrite in flotation using thionocarbamate collector. Powder Technology, 2021, 385, 12-20.	4.2	24
103	Challenges and opportunities in the recovery/rejection of trace elements in copper flotation-a review. Minerals Engineering, 2015, 78, 45-57.	4.3	23
104	Acid leaching and rheological behaviour of a siliceous goethitic nickel laterite ore: Influence of particle size and temperature. Minerals Engineering, 2015, 77, 52-63.	4.3	23
105	The upgrading of rare earth oxides from iron-oxide silicate rich tailings: Flotation performance using sodium oleate and hydroxamic acid as collectors. Advanced Powder Technology, 2018, 29, 3163-3172.	4.1	23
106	A Method for the Longitudinal Sectioning of Single Hair Samples. Journal of Forensic Sciences, 2002, 47, 1-4.	1.6	23
107	An X-ray photoelectron and absorption spectroscopic investigation of the electronic structure of cubanite, CuFe2S3. Physics and Chemistry of Minerals, 2010, 37, 389-405.	0.8	22
108	Column leaching of nickel laterite agglomerates: Effect of feed size. Hydrometallurgy, 2013, 134-135, 144-149.	4.3	22

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109	Effect of particle size distribution on recovery of coarse chalcopyrite and galena in Denver flotation cell. Canadian Metallurgical Quarterly, 2013, 52, 465-472.	1.2	22
110	Regrinding sulphide minerals â€" Breakage mechanisms in milling and their influence on surface properties and flotation behaviour. Powder Technology, 2010, 203, 133-147.	4.2	21
111	Predicting the surface chemistry contribution to the flotation recovery of chalcopyrite by ToF-SIMS. Minerals Engineering, 2011, 24, 160-168.	4.3	21
112	ToF-SIMS-derived hydrophobicity in DTP flotation of chalcopyrite: Contact angle distributions in flotation streams. International Journal of Mineral Processing, 2011, 98, 35-41.	2.6	21
113	Cation exchange of aqueous CuInS₂ quantum dots. CrystEngComm, 2014, 16, 9455-9460.	2.6	21
114	Flotation recovery of rare earth oxides from hematiteâ€"quartz mixture using sodium oleate as a collector. Minerals Engineering, 2019, 141, 105847.	4.3	21
115	Micro-synchrotron x-ray fluorescence of the metal distribution in a black spruce tree stem: evidence for radial mobility. X-Ray Spectrometry, 2003, 32, 402-407.	1.4	20
116	Source of Ni in coal mine acid rock drainage, West Coast, New Zealand. International Journal of Coal Geology, 2006, 67, 214-220.	5.0	20
117	CHANGES IN THE METAL CONTENT OF HUMAN HAIR DURING DIAGENESIS FROM 500 YEARS, EXPOSURE TO GLACIAL AND AQUEOUS ENVIRONMENTS. Archaeometry, 2010, 52, 450-466.	1.3	20
118	Agglomeration and column leaching behaviour of goethitic and saprolitic nickel laterite ores. Minerals Engineering, 2014, 65, 1-8.	4.3	20
119	Assessing the performance of a novel pneumatic magnetic separator for the beneficiation of magnetite ore. Minerals Engineering, 2020, 156, 106483.	4.3	20
120	Time-of-flight secondary-ion mass spectrometry for the surface characterization of solid-state pharmaceuticals. Journal of Pharmacy and Pharmacology, 2010, 59, 251-259.	2.4	19
121	Post-regrind selective depression of pyrite in pyritic copperâ€"gold flotation using aeration and diethylenetriamine. Minerals Engineering, 2015, 72, 36-46.	4.3	19
122	Interaction of cuprite with dialkyl dithiophosphates. International Journal of Mineral Processing, 2009, 93, 155-164.	2.6	18
123	Microstructure analysis of Ni laterite agglomerates for enhanced heap leaching. Powder Technology, 2012, 232, 106-112.	4.2	18
124	Agglomeration behaviour and product structure of clay and oxide minerals. Chemical Engineering Science, 2013, 98, 40-50.	3.8	18
125	Sulfur crosslinks from thermal degradation of chitosan dithiocarbamate derivatives and thermodynamic study for sorption of copper and cadmium from aqueous system. Environmental Science and Pollution Research, 2016, 23, 1050-1059.	5.3	18
126	Real-time non-invasive detection of inhalable particulates delivered into live mouse airways. Journal of Synchrotron Radiation, 2009, 16, 553-561.	2.4	17

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127	Glass-Containing Gunshot Residue Particles: A New Type of Highly Characteristic Particle?. Journal of Forensic Sciences, 2003, 48, 1-15.	1.6	17
128	Determination of Contact Angles, Silane Coverage, and Hydrophobicity Heterogeneity of Methylated Quartz Surfaces Using ToF-SIMS. Langmuir, 2012, 28, 7360-7367.	3.5	16
129	New interpretation and approach to curve fitting synchrotron X-ray photoelectron spectra of (Fe,Ni)9S8 fracture surfaces. Applied Surface Science, 2020, 504, 144458.	6.1	16
130	Sulfur electronic environments in Î±-NiS and Î²-NiS: examination of the relationship between coordination number and core electron binding energies. Physics and Chemistry of Minerals, 2006, 33, 98-105.	0.8	15
131	Synthesis and Phase Transfer of Monodisperse Iron Oxide (Fe3O4) Nanocubes. Australian Journal of Chemistry, 2014, 67, 663.	0.9	15
132	SWCNT photocathodes sensitised with InP/ZnS coreâ€“shell nanocrystals. Journal of Materials Chemistry C, 2016, 4, 3379-3384.	5.5	15
133	Pulp mineralogy and chemistry, leaching and rheological behaviour relationships of refractory gold ore dispersions. Chemical Engineering Research and Design, 2019, 146, 87-103.	5.6	15
134	Upgrading of low-grade gold ore samples for improved particle characterisation using Micro-CT and SEM/EDX. Advanced Powder Technology, 2012, 23, 498-508.	4.1	14
135	Influence of gold mineralogy on its flotation recovery in a porphyry copperâ€“gold ore. Chemical Engineering Science, 2013, 99, 127-138.	3.8	14
136	Dissolution and rheological behaviour of hematite and quartz particles in aqueous media at pH 1. Chemical Engineering Research and Design, 2014, 92, 2509-2522.	5.6	14
137	Incorporating fluidised-bed flotation into a conventional flotation flowsheet: A focus on energy implications of coarse particle recovery. Powder Technology, 2015, 275, 85-93.	4.2	14
138	Surface chemistry of oxidised pyrite during grinding: ToF-SIMS and XPS surface analysis. Minerals Engineering, 2021, 170, 106992.	4.3	14
139	A europium metalâ€“organic framework for dual Fe3+ ion and pH sensing. Scientific Reports, 2022, 12, .	3.3	14
140	Rheological behavior of muscovite clay slurries: Effect of water quality and solution speciation. International Journal of Mineral Processing, 2012, 102-103, 89-98.	2.6	13
141	Control of the spatial homogeneity of pore surface chemistry in particulate activated carbon. Carbon, 2015, 95, 144-149.	10.3	13
142	An Investigation into the Spatial Elemental Distribution Within a Pane of Glass by Time of Flight Secondary Ion Mass Spectrometry. Journal of Forensic Sciences, 2008, 53, 312-320.	1.6	12
143	A new technique to examine individual pollutant particle and fibre deposition and transit behaviour in live mouse trachea. Journal of Synchrotron Radiation, 2010, 17, 719-729.	2.4	12
144	Model Surfaces Produced by Atomic Layer Deposition. Chemistry Letters, 2012, 41, 1247-1249.	1.3	12

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145	Leaching behaviour of low and high Fe-substituted chlorite clay minerals at low pH. Hydrometallurgy, 2012, 125-126, 100-108.	4.3	12
146	Preconcentration strategies in the processing of nickel laterite ores Part 5: Effect of mineralogy. Minerals Engineering, 2017, 110, 31-39.	4.3	12
147	Influence of matrix type on WHIMS performance in the magnetic processing of iron ores. Minerals Engineering, 2020, 152, 106346.	4.3	12
148	The Use of Mining Tailings as Analog of Rare Earth Elements Resources: Part 1 â€“ Characterization and Preliminary Separation. Mineral Processing and Extractive Metallurgy Review, 2022, 43, 701-715.	5.0	12
149	Influence of Mineral Chemistry on Electrokinetic and Rheological Behavior of Aqueous Muscovite Dispersions. Industrial & Engineering Chemistry Research, 2011, 50, 11087-11096.	3.7	11
150	pH-mediated interfacial chemistry and particle interactions in aqueous chlorite dispersions. Chemical Engineering Research and Design, 2013, 91, 448-456.	5.6	11
151	Preconcentration strategies in the processing of nickel laterite ores Part 4: Preliminary dewatering studies. Minerals Engineering, 2015, 79, 287-294.	4.3	11
152	Effect of mineralogy and temperature on atmospheric acid leaching and rheological behaviour of model oxide and clay mineral dispersions. Powder Technology, 2015, 286, 420-430.	4.2	11
153	Evidence for surface cleaning of sulphide minerals by attritioning in stirred mills. Minerals Engineering, 2010, 23, 937-944.	4.3	10
154	An assessment of activated carbon cloth microporosity change due to chemical activation. Carbon, 2010, 48, 1004-1011.	10.3	10
155	Improved dewatering of clay rich mineral dispersions using recyclable superabsorbent polymers. Chemical Engineering Research and Design, 2019, 142, 78-86.	5.6	10
156	Application of ToF-SIMS to predict contact angles of pyrite particles. Minerals Engineering, 2020, 147, 106168.	4.3	10
157	Characterisation of Metal Debris in Grinding and Flotation Circuits. Minerals Engineering, 2021, 171, 107074.	4.3	10
158	The interaction of iron(III) species with galena surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1995, 105, 325-339.	4.7	9
159	Electronic environments in Ni3Pb2S2 (shandite) and its initial oxidation in air. Journal of Solid State Chemistry, 2013, 206, 32-37.	2.9	9
160	Characterisation of coarse composite sphalerite particles with respect to flotation. Minerals Engineering, 2015, 71, 105-112.	4.3	9
161	Comparison of the performance of different comminution technologies in terms of energy efficiency and mineral liberation. Minerals Engineering, 2020, 156, 106454.	4.3	9
162	Amineâ€functionalized natural zeolites prepared through plasma polymerization for enhanced carbon dioxide adsorption. Plasma Processes and Polymers, 2021, 18, 2100028.	3.0	9

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163	Gelation of aqueous clay mineral dispersions leaching at low pH: Effect of mineral/pulp composition and temperature. Powder Technology, 2012, 223, 98-104.	4.2	8
164	The impact of preload on the mobilisation of multivalent trace metals in pyrite-rich sediment. Environmental Monitoring and Assessment, 2018, 190, 398.	2.7	8
165	Refractory gold ores and concentrates part 1: mineralogical and physico-chemical characteristics. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2021, 130, 240-252.	0.2	8
166	Copper Metallopolymer Catalyst for the Electrocatalytic Hydrogen Evolution Reaction (HER). Polymers, 2019, 11, 110.	4.5	8
167	Enhancing gold recovery from refractory bio-oxidised gold concentrates through high intensity milling. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2020, 129, 64-73.	0.2	8
168	Multiâ€instrument characterization of HiPIMS and DC magnetron sputtered tungsten and copper films. Surface and Interface Analysis, 2020, 52, 433-441.	1.8	8
169	Predicting mill feed grind characteristics through acoustic measurements. Minerals Engineering, 2021, 171, 107099.	4.3	8
170	Superabsorbent dewatering of refractory gold concentrate slurries. Advanced Powder Technology, 2020, 31, 3168-3176.	4.1	7
171	Modelling the fluidised bed in HydroFloatâ„¢ for improved process control. Powder Technology, 2021, 388, 241-250.	4.2	7
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