Xuming Wang

List of Publications by Year
in descending order

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69 papers	2,413 citations	172457 29 h-index	214800 47 g-index
70 all docs	70 docs citations	70 times ranked	2352 citing authors

#	Article	IF	Citations
1	Natural halloysite nano-clay electrolyte for advanced all-solid-state lithium-sulfur batteries. Nano Energy, 2017, 31, 478-485.	16.0	306
2	Unique starch polymer electrolyte for high capacity all-solid-state lithium sulfur battery. Green Chemistry, 2016, 18, 3796-3803.	9.0	122
3	Surface charge and wetting characteristics of layered silicate minerals. Advances in Colloid and Interface Science, 2012, 179-182, 43-50.	14.7	100
4	Role of additives in improved thermal activation of coal fly ash for alumina extraction. Fuel Processing Technology, 2013, 110, 114-121.	7.2	97
5	Ultrasound-assisted leaching of cobalt and lithium from spent lithium-ion batteries. Ultrasonics Sonochemistry, 2018, 48, 88-95.	8.2	94
6	The surface state of hematite and its wetting characteristics. Journal of Colloid and Interface Science, 2016, 477, 16-24.	9.4	76
7	Surface force measurements at kaolinite edge surfaces using atomic force microscopy. Journal of Colloid and Interface Science, 2014, 420, 35-40.	9.4	71
8	Thioureaâ€“thiocyanate leaching system for gold. Hydrometallurgy, 2011, 106, 58-63.	4.3	60
9	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
10	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.	9.4	54
11	Surface chemistry aspects of bastnaesite flotation with octyl hydroxamate. International Journal of Mineral Processing, 2014, 133, 29-38.	2.6	52
12	Interfacial water structure and the wetting of mineral surfaces. International Journal of Mineral Processing, 2016, 156, 62-68.	2.6	51
13	Potash flotation practice for carnallite resources in the Qinghai Province, PRC. Minerals Engineering, 2014, 66-68, 33-39.	4.3	50
14	Influence of salt concentration on DCMD performance for treatment of highly concentrated NaCl, KCl, MgCl2 and MgSO4 solutions. Desalination, 2015, 355, 110-117.	8.2	50
15	Flotation chemistry features in bastnaesite flotation with potassium lauryl phosphate. Minerals Engineering, 2016, 85, 17-22.	4.3	50
16	Dissolution kinetics of aluminum and iron from coal mining waste by hydrochloric acid. Chinese Journal of Chemical Engineering, 2015, 23, 590-596.	3.5	49
17	Advanced Nanoclay-Based Nanocomposite Solid Polymer Electrolyte for Lithium Iron Phosphate Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8954-8960.	8.0	49
18	States of Adsorbed Dodecyl Amine and Water at a Silica Surface As Revealed by Vibrational Spectroscopy. Langmuir, 2010, 26, 3407-3414.	3.5	47

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19	Significance of particle aggregation in the reverse flotation of kaolinite from bauxite ore. Minerals Engineering, 2015, 78, 58-65.	4.3	47
20	The surface features of lead activation in amyl xanthate flotation of quartz. International Journal of Mineral Processing, 2016, 151, 33-39.	2.6	47
21	Some physicochemical aspects of water-soluble mineral flotation. Advances in Colloid and Interface Science, 2016, 235, 190-200.	14.7	45
22	Effect of ultrasound on bubble-particle interaction in quartz-amine flotation system. Ultrasonics Sonochemistry, 2019, 52, 446-454.	8.2	45
23	Bastnaesite flotation chemistry issues associated with alkyl phosphate collectors. Minerals Engineering, 2018, 127, 286-295.	4.3	40
24	Fundamental issues on the influence of starch in amine adsorption by quartz. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 642-651.	4.7	39
25	Lauryl phosphate adsorption in the flotation of Bastnaesite, (Ce,La)FCO3. Journal of Colloid and Interface Science, 2017, 490, 825-833.	9.4	38
26	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
27	Surface chemistry features in the flotation of KCl. Minerals Engineering, 2010, 23, 365-373.	4.3	34
28	Biocompatible and biodegradable solid polymer electrolytes for high voltage and high temperature lithium batteries. RSC Advances, 2017, 7, 24856-24863.	3.6	33
29	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
30	Wetting characteristics of spodumene surfaces as influenced by collector adsorption. Minerals Engineering, 2019, 130, 117-128.	4.3	32
31	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
32	Evaluation of stucco binder for agglomeration in the heap leaching of copper ore. Minerals Engineering, 2011, 24, 886-893.	4.3	29
33	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
34	Wetting of selected fluorite surfaces by water. Surface Innovations, 2015, 3, 39-48.	2.3	26
35	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
36	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

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37	Adsorption of corn starch molecules at hydrophobic mineral surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 546, 194-202.	4.7	25
38	The effect of an external magnetic field on cationic flotation of quartz from magnetite. Minerals Engineering, 2010, 23, 813-818.	4.3	22
39	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
40	Molecular features of water films created with bubbles at silica surfaces. Surface Innovations, 2015, 3, 20-26.	2.3	19
41	Collector Chemistry for Bastnaesite Flotation â€“ Recent Developments. Mineral Processing and Extractive Metallurgy Review, 2019, 40, 370-379.	5.0	19
42	Smithsonite flotation with lauryl phosphate. Minerals Engineering, 2020, 147, 106155.	4.3	19
43	Attachment, Coalescence, and Spreading of Carbon Dioxide Nanobubbles at Pyrite Surfaces. Langmuir, 2018, 34, 14317-14327.	3.5	18
44	Silica surface states and their wetting characteristics. Surface Innovations, 2020, 8, 145-157.	2.3	18
45	Recent Developments in the Beneficiation of Chinese Bauxite. Mineral Processing and Extractive Metallurgy Review, 2010, 31, 111-119.	5.0	15
46	Solvent extraction and stripping of copper in a Y-Y type microchannel reactor. Minerals Engineering, 2018, 127, 296-304.	4.3	15
47	Surface chemistry features of spodumene with isomorphous substitution. Minerals Engineering, 2020, 146, 106139.	4.3	15
48	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
49	Characterization of Particle Size and Composition of Respirable Coal Mine Dust. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overloc	2.0	12
50	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
51	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
52	Evaluation of flotation technology for the trona industry. Minerals Engineering, 2010, 23, 1-9.	4.3	10
53	Improved Lime Method to Prepare High-Purity Magnesium Hydroxide and Light Magnesia from Bischofite. Jom, 2019, 71, 4674-4680.	1.9	10
54	Adsorption kinetics and isotherms of ammonia-nitrogen on steel slag. Desalination and Water Treatment, 2015, 55, 142-150.	1.0	9

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55	Study of Sucrose Based Room Temperature Solid Polymer Electrolyte for Lithium Sulfur Battery. Journal of the Electrochemical Society, 2017, 164, A447-A452.	2.9	9
56	Influence of the pH in Reactions of Boric Acid/Borax with Simple Hydroxyl Compounds: Investigation by Raman Spectroscopy and DFT Calculations. ChemistrySelect, 2019, 4, 14132-14139.	1.5	8
57	Adsorption of water and fatty acids at magnesium hydroxide surface from an MDS perspective. Surface Innovations, 2019, 7, 304-316.	2.3	8
58	Lauryl Phosphate Flotation Chemistry in Barite Flotation. Minerals (Basel, Switzerland), 2020, 10, 280.	2.0	7
59	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
60	Interfacial Water Features at Airâ€“Water Interfaces as Influenced by Charged Surfactants. Journal of Physical Chemistry B, 2019, 123, 2397-2404.	2.6	6
61	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.	4.7	5
62	A data science approach for advanced solid polymer electrolyte design. Computational Materials Science, 2021, 187, 110108.	3.0	4
63	The Influence of Polysaccharides on Film Stability and Bubble Attachment at the Talc Surface. Mining, Metallurgy and Exploration, 2019, 36, 71-80.	0.8	3
64	Simulation of fatty acid adsorption at the magnesia surface. Surface Innovations, 2020, 8, 172-181.	2.3	3
65	Molecular Dynamics Simulation Analysis of Solutions and Surfaces in Nonsulfide Flotation Systems. , 2012, , 107-156.		3
66	Novel Alkaline Method for the Preparation of Low-Chromium Magnesia. Jom, 2020, 72, 333-339.	1.9	2
67	AFM Slip Length Measurements for Water at Selected Phyllosilicate Surfaces. Colloids and Interfaces, 2021, 5, 44.	2.1	2
68	Removal of Insoluble Slimes from Potash Ore Using Flotation. Tenside, Surfactants, Detergents, 2017, 54, 479-485.	1.2	2
69	A Novel Combined Flowsheet of Beneficiation and Acid Leaching under High Pressure for Complex Lead-Zinc Ores. Advanced Materials Research, 0, 92, 13-21.	0.3	0