

Xuming Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3480782/publications.pdf>

Version: 2024-02-01

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	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
2	A data science approach for advanced solid polymer electrolyte design. Computational Materials Science, 2021, 187, 110108.	3.0	4
3	Characterization of Particle Size and Composition of Respirable Coal Mine Dust. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 2.0	2.0	12
4	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
5	AFM Slip Length Measurements for Water at Selected Phyllosilicate Surfaces. Colloids and Interfaces, 2021, 5, 44.	2.1	2
6	Novel Alkaline Method for the Preparation of Low-Chromium Magnesite. Jom, 2020, 72, 333-339.	1.9	2
7	Smithsonite flotation with lauryl phosphate. Minerals Engineering, 2020, 147, 106155.	4.3	19
8	Surface chemistry features of spodumene with isomorphous substitution. Minerals Engineering, 2020, 146, 106139.	4.3	15
9	Lauryl Phosphate Flotation Chemistry in Barite Flotation. Minerals (Basel, Switzerland), 2020, 10, 280.	2.0	7
10	Simulation of fatty acid adsorption at the magnesite surface. Surface Innovations, 2020, 8, 172-181.	2.3	3
11	Silica surface states and their wetting characteristics. Surface Innovations, 2020, 8, 145-157.	2.3	18
12	Improved Lime Method to Prepare High-Purity Magnesium Hydroxide and Light Magnesite from Bischofite. Jom, 2019, 71, 4674-4680.	1.9	10
13	Collector Chemistry for Bastnaesite Flotation – Recent Developments. Mineral Processing and Extractive Metallurgy Review, 2019, 40, 370-379.	5.0	19
14	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
15	Advanced Nanoclay-Based Nanocomposite Solid Polymer Electrolyte for Lithium Iron Phosphate Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8954-8960.	8.0	49
16	Interfacial Water Features at Air–Water Interfaces as Influenced by Charged Surfactants. Journal of Physical Chemistry B, 2019, 123, 2397-2404.	2.6	6
17	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
18	Adsorption of water and fatty acids at magnesium hydroxide surface from an MDS perspective. Surface Innovations, 2019, 7, 304-316.	2.3	8

#	ARTICLE	IF	CITATIONS
19	The Influence of Polysaccharides on Film Stability and Bubble Attachment at the Talc Surface. <i>Mining, Metallurgy and Exploration</i> , 2019, 36, 71-80.	0.8	3
20	Effect of ultrasound on bubble-particle interaction in quartz-amine flotation system. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 446-454.	8.2	45
21	Wetting characteristics of spodumene surfaces as influenced by collector adsorption. <i>Minerals Engineering</i> , 2019, 130, 117-128.	4.3	32
22	The hydrophobic surface state of talc as influenced by aluminum substitution in the tetrahedral layer. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 737-748.	9.4	26
23	Adsorption of corn starch molecules at hydrophobic mineral surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 546, 194-202.	4.7	25
24	Solvent extraction of Cu(II) from sulfate solutions containing Zn(II) and Fe(III) using an interdigital micromixer. <i>Hydrometallurgy</i> , 2018, 177, 116-122.	4.3	26
25	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
26	Attachment, Coalescence, and Spreading of Carbon Dioxide Nanobubbles at Pyrite Surfaces. <i>Langmuir</i> , 2018, 34, 14317-14327.	3.5	18
27	States of coadsorption for oleate and dodecylamine at selected spodumene surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 313-321.	4.7	21
28	Solvent extraction and stripping of copper in a Y-Y type microchannel reactor. <i>Minerals Engineering</i> , 2018, 127, 296-304.	4.3	15
29	Ultrasound-assisted leaching of cobalt and lithium from spent lithium-ion batteries. <i>Ultrasonics Sonochemistry</i> , 2018, 48, 88-95.	8.2	94
30	Bastnaesite flotation chemistry issues associated with alkyl phosphate collectors. <i>Minerals Engineering</i> , 2018, 127, 286-295.	4.3	40
31	Study of Sucrose Based Room Temperature Solid Polymer Electrolyte for Lithium Sulfur Battery. <i>Journal of the Electrochemical Society</i> , 2017, 164, A447-A452.	2.9	9
32	Specific anion effects on adsorption and packing of octadecylamine hydrochloride molecules at the air/water interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 522, 544-551.	4.7	11
33	Biocompatible and biodegradable solid polymer electrolytes for high voltage and high temperature lithium batteries. <i>RSC Advances</i> , 2017, 7, 24856-24863.	3.6	33
34	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
35	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
36	Natural halloysite nano-clay electrolyte for advanced all-solid-state lithium-sulfur batteries. <i>Nano Energy</i> , 2017, 31, 478-485.	16.0	306

#	ARTICLE	IF	CITATIONS
37	Removal of Insoluble Slimes from Potash Ore Using Flotation. <i>Tenside, Surfactants, Detergents</i> , 2017, 54, 479-485.	1.2	2
38	Unique starch polymer electrolyte for high capacity all-solid-state lithium sulfur battery. <i>Green Chemistry</i> , 2016, 18, 3796-3803.	9.0	122
39	The surface features of lead activation in amyl xanthate flotation of quartz. <i>International Journal of Mineral Processing</i> , 2016, 151, 33-39.	2.6	47
40	The surface state of hematite and its wetting characteristics. <i>Journal of Colloid and Interface Science</i> , 2016, 477, 16-24.	9.4	76
41	Some physicochemical aspects of water-soluble mineral flotation. <i>Advances in Colloid and Interface Science</i> , 2016, 235, 190-200.	14.7	45
42	Flotation chemistry features in bastnaesite flotation with potassium lauryl phosphate. <i>Minerals Engineering</i> , 2016, 85, 17-22.	4.3	50
43	Interfacial water structure and the wetting of mineral surfaces. <i>International Journal of Mineral Processing</i> , 2016, 156, 62-68.	2.6	51
44	Wetting of selected fluorite surfaces by water. <i>Surface Innovations</i> , 2015, 3, 39-48.	2.3	26
45	Molecular features of water films created with bubbles at silica surfaces. <i>Surface Innovations</i> , 2015, 3, 20-26.	2.3	19
46	Adsorption kinetics and isotherms of ammonia-nitrogen on steel slag. <i>Desalination and Water Treatment</i> , 2015, 55, 142-150.	1.0	9
47	Significance of particle aggregation in the reverse flotation of kaolinite from bauxite ore. <i>Minerals Engineering</i> , 2015, 78, 58-65.	4.3	47
48	Dissolution kinetics of aluminum and iron from coal mining waste by hydrochloric acid. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 590-596.	3.5	49
49	Influence of salt concentration on DCMD performance for treatment of highly concentrated NaCl, KCl, MgCl ₂ and MgSO ₄ solutions. <i>Desalination</i> , 2015, 355, 110-117.	8.2	50
50	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
51	Influence of ionic strength on the surface charge and interaction of layered silicate particles. <i>Journal of Colloid and Interface Science</i> , 2014, 432, 270-277.	9.4	30
52	Surface chemistry aspects of bastnaesite flotation with octyl hydroxamate. <i>International Journal of Mineral Processing</i> , 2014, 133, 29-38.	2.6	52
53	Potash flotation practice for carnallite resources in the Qinghai Province, PRC. <i>Minerals Engineering</i> , 2014, 66-68, 33-39.	4.3	50
54	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

#	ARTICLE	IF	CITATIONS
55	Role of additives in improved thermal activation of coal fly ash for alumina extraction. Fuel Processing Technology, 2013, 110, 114-121.	7.2	97
56	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
57	Surface charge and wetting characteristics of layered silicate minerals. Advances in Colloid and Interface Science, 2012, 179-182, 43-50.	14.7	100
58	Molecular Dynamics Simulation Analysis of Solutions and Surfaces in Nonsulfide Flotation Systems. , 2012, , 107-156.		3
59	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
60	Evaluation of stucco binder for agglomeration in the heap leaching of copper ore. Minerals Engineering, 2011, 24, 886-893.	4.3	29
61	Thiourea-thiocyanate leaching system for gold. Hydrometallurgy, 2011, 106, 58-63.	4.3	60
62	Evaluation of flotation technology for the trona industry. Minerals Engineering, 2010, 23, 1-9.	4.3	10
63	Surface chemistry features in the flotation of KCl. Minerals Engineering, 2010, 23, 365-373.	4.3	34
64	The effect of an external magnetic field on cationic flotation of quartz from magnetite. Minerals Engineering, 2010, 23, 813-818.	4.3	22
65	Recent Developments in the Beneficiation of Chinese Bauxite. Mineral Processing and Extractive Metallurgy Review, 2010, 31, 111-119.	5.0	15
66	States of Adsorbed Dodecyl Amine and Water at a Silica Surface As Revealed by Vibrational Spectroscopy. Langmuir, 2010, 26, 3407-3414.	3.5	47
67	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
68	Selective attachment and spreading of hydroxamic acid-alcohol collector mixtures in phosphate flotation. International Journal of Mineral Processing, 2006, 78, 122-130.	2.6	34
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