Fanfei Min

List of Publications by Year
in descending order

63	1,193	331670 21	434195 31
papers	citations	h-index	g-index

63	63	63	831
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study on bubble penetrating solution/frother interface in the presence of ions. Powder Technology, 2022, 398, 117139.	4.2	0
2	Effect of inorganic cations on enhancing graphite/kerosene adsorption and reducing carbon emission in graphite flotation. Fuel, 2022, 314, 122740.	6.4	7
3	Hierarchically porous biochar templated by in situ formed ZnO for rapid Pb2+ and Cd2+ adsorption in wastewater: Experiment and molecular dynamics study. Environmental Pollution, 2022, 302, 119107.	7.5	11
4	Synergetic adsorption of dodecane and dodecylamine on oxidized coal: Insights from molecular dynamics simulation. Applied Surface Science, 2022, 592, 153103.	6.1	21
5	Insights into the influence mechanism of Mg2+ doping on hydration activity of kaolinite surface: A DFT calculation. Chemical Physics, 2022, 560, 111576.	1.9	12
6	Experimental investigation and DFT calculation of different amine/ammonium salts adsorption on oxidized coal. Chemical Physics, 2022, 561, 111598.	1.9	13
7	Interactions between Mg2+-doped kaolinite and coal: Insights from DFT calculation and flotation. Applied Surface Science, 2022, 600, 154071.	6.1	18
8	Promotion of Coal Slime Water Sedimentation and Filtration via Hydrophobic Coagulation. International Journal of Coal Preparation and Utilization, 2021, 41, 815-829.	2.1	8
9	Effect of frother addition mode on coal flotation in downflow flotation column. Journal of Cleaner Production, 2021, 278, 123844.	9.3	18
10	Systematic exploration of quaternary ammonium salt adsorption on oxidized coal based on experiments and MD simulations. Fuel, 2021, 287, 119434.	6.4	14
11	Experiments and CFD-DEM simulations of fine kaolinite particle sedimentation dynamic characteristics in a water environment. Powder Technology, 2021, 382, 60-69.	4.2	10
12	Facile Synthesis of Ternary TiO2/Polyaniline/Graphene Composites with Enhanced Photocatalytic Performance towards Organic Dyes Removal. Russian Journal of Physical Chemistry A, 2021, 95, 1745-1755.	0.6	3
13	Effects of temperature and frequency on the dielectric properties of thiophene compounds and its application in coal microwave-assisted desulfurization. Fuel, 2021, 301, 121089.	6.4	14
14	A new insight into the adsorption behavior of NPAM on kaolinite/water interface: Experimental and theoretical approach. Fuel, 2021, 303, 121299.	6.4	17
15	Adsorption of Cr(OH)n(3â^'n)+ (n = 1â€“3) on Illite (001) and (010) Surfaces: A DFT Study. Processes, 2021, 9, 2048.	2.8	2
16	Adsorption of different PAM structural units on kaolinite (0â€¯0â€¯1) surface: Density functional theory study. Applied Surface Science, 2020, 504, 144324.	6.1	32
17	Effect of Hydration Layer on the Adsorption of Dodecane Collector on Low-Rank Coal: A Molecular Dynamics Simulation Study. Processes, 2020, 8, 1207.	2.8	9
18	Molecular dynamics simulation of NH4-montmorillonite interlayer hydration: Structure, energetics, and dynamics. Applied Clay Science, 2020, 195, 105657.	5.2	14

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19	Facile synthesis and enhanced microwave absorption properties of anthracite-based carbon/Ni₃Fe/NiO ternary composites. New Journal of Chemistry, 2020, 44, 13962-13970.	2.8	6
20	Adsorption mechanism insights into CPAM structural units on kaolinite surfaces: A DFT simulation. Applied Clay Science, 2020, 197, 105719.	5.2	20
21	Salt coagulation or flocculation? In situ zeta potential study on ion correlation and slime coating with the presence of clay: A case of coal slurry aggregation. Environmental Research, 2020, 189, 109875.	7.5	21
22	Bifunctional polyaniline electroconductive hydrogels with applications in supercapacitor and wearable strain sensors. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 938-953.	3.5	23
23			

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37	Mechanism of hydrolyzable metal ions effect on the zeta potential of fine quartz particles. Journal of Dispersion Science and Technology, 2018, 39, 298-304.	2.4	11
38	Adsorption of alkylamine cations on montmorillonite (001) surface: A density functional theory study. Applied Clay Science, 2018, 152, 249-258.	5.2	47
39	Molecular Dynamics Study of Crystalline Swelling of Montmorillonite as Affected by Interlayer Cation Hydration. Jom, 2018, 70, 479-484.	1.9	26
40	DFT study of the adsorption of 3-chloro-2-hydroxypropyl trimethylammonium chloride on montmorillonite surfaces in solution. Applied Surface Science, 2018, 436, 58-65.	6.1	23
41	Study on the aggregation behavior of kaolinite particles in the presence of cationic, anionic and non-ionic surfactants. PLoS ONE, 2018, 13, e0204037.	2.5	7
42	Effect of dodecylamine-frother blend on bubble rising characteristics. Powder Technology, 2018, 338, 586-590.	4.2	14
43	A study of bubble size evolution in Jameson flotation cell. Chemical Engineering Research and Design, 2018, 137, 461-466.	5.6	19
44	Correlation of montmorillonite exfoliation with interlayer cations in the preparation of two-dimensional nanosheets. RSC Advances, 2017, 7, 41471-41478.	3.6	49
45	Effect of pH on the adsorption of dodecylamine on montmorillonite: Insights from experiments and molecular dynamics simulations. Applied Surface Science, 2017, 425, 996-1005.	6.1	55
46	Electronic structural properties of BiOF crystal and its oxygen vacancy from first-principles calculations. Russian Journal of Physical Chemistry A, 2017, 91, 2425-2430.	0.6	3
47	The adsorption of CaOH⁺on (001) basal and (010) edge surface of Na-montmorillonite: a DFT study. Surface and Interface Analysis, 2017, 49, 267-277.	1.8	49
48	The Effects of Calcium Ions on the Flotation of Sillimanite Using Dodecylammonium Chloride. Minerals (Basel, Switzerland), 2017, 7, 28.	2.0	14
49	Hydrophobic aggregation of fine particles in high muddied coal slurry water. Water Science and Technology, 2016, 73, 501-510.	2.5	33
50	A NOVEL METHOD FOR THE DETERMINATION OF THE POINT OF ZERO NET PROTON CHARGE OF COLLOIDAL KAOLINITE IN AQUEOUS SOLUTIONS. Surface Review and Letters, 2016, 23, 1650023.	1.1	3
51	The flotation of aluminosilicate polymorphic minerals with anionic and cationic collectors. Minerals Engineering, 2016, 99, 123-132.	4.3	31
52	A periodic DFT study of adsorption of water on sodium-montmorillonite (001) basal and (010) edge surface. Applied Surface Science, 2016, 387, 308-316.	6.1	94
53	Investigation on hydration layers of fine clay mineral particles in different electrolyte aqueous solutions. Powder Technology, 2015, 283, 368-372.	4.2	34
54	Fundamental study on removal of organic sulfur from coal by microwave irradiation. International Journal of Mineral Processing, 2015, 139, 31-35.	2.6	25

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55	Microstructural characterization and mechanical property of Fly Ash/Al-25Mg composites. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 1019-1022.	1.0	9
56	Hydration Layers on Clay Mineral Surfaces in Aqueous Solutions: a Review/Warstwy Uwodnione Na Powierzchni MineraÅ‚Ã³w Ilastych W Roztworach Wodnych: PrzeglÄ…d. Archives of Mining Sciences, 2014, 59, 489-500.	0.6	6
57	Microstructure and thermo-mechanical properties of SiCp/Al composites prepared by pressureless infiltration. Journal of Materials Science: Materials in Electronics, 2013, 24, 1937-1940.	2.2	8
58	Hydrophobic agglomeration of colloidal kaolinite in aqueous suspensions with dodecylamine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 434, 281-286.	4.7	42
59	Extraction of Nano-Î±-Al₂O₃ and SiO₂ from Fly Ash at Low Temperature Conditions. Integrated Ferroelectrics, 2013, 147, 8-16.	0.7	3
60	CHARACTERIZATIONS AND STABILITY OF COLLOIDAL COAL-MEASURE KAOLINITE IN AQUEOUS SUSPENSIONS: A REVIEW. Surface Review and Letters, 2013, 20, 1330001.	1.1	6
61	Investigation for Reaction Mechanism of Nano-Silica-Modified Cement-Based Composite Materials. Integrated Ferroelectrics, 2011, 129, 160-168.	0.7	2
62	Effect of Zn2+ content on the microstructure and magnetic properties of nanocrystalline Ni1â^'x Zn x Fe2O4 ferrite by a spraying-coprecipitation method. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 429-431.	1.0	1
63	Research of reagent interaction on induction time during bubbleâ€“particle interaction. International Journal of Coal Preparation and Utilization, 0, , 1-17.	2.1	1