

Fanfei Min

List of Publications by Year in descending order

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63
papers

1,193
citations

331670

21
h-index

434195

31
g-index

63
all docs

63
docs citations

63
times ranked

831
citing authors

#	ARTICLE	IF	CITATIONS
1	A periodic DFT study of adsorption of water on sodium-montmorillonite (001) basal and (010) edge surface. <i>Applied Surface Science</i> , 2016, 387, 308-316.	6.1	94
2	Effect of pH on the adsorption of dodecylamine on montmorillonite: Insights from experiments and molecular dynamics simulations. <i>Applied Surface Science</i> , 2017, 425, 996-1005.	6.1	55
3	Correlation of montmorillonite exfoliation with interlayer cations in the preparation of two-dimensional nanosheets. <i>RSC Advances</i> , 2017, 7, 41471-41478.	3.6	49
4	The adsorption of CaOH ⁺ on (001) basal and (010) edge surface of Na-montmorillonite: a DFT study. <i>Surface and Interface Analysis</i> , 2017, 49, 267-277.	1.8	49
5	Hydration properties of alkali and alkaline earth metal ions in aqueous solution: A molecular dynamics study. <i>Chemical Physics Letters</i> , 2019, 727, 31-37.	2.6	48
6	Adsorption of alkylamine cations on montmorillonite (001) surface: A density functional theory study. <i>Applied Clay Science</i> , 2018, 152, 249-258.	5.2	47
7	Hydrophobic agglomeration of colloidal kaolinite in aqueous suspensions with dodecylamine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 434, 281-286.	4.7	42
8	The adsorption of dodecylamine and oleic acid on kaolinite surfaces: Insights from DFT calculation and experimental investigation. <i>Applied Surface Science</i> , 2019, 470, 27-35.	6.1	38
9	Investigation on hydration layers of fine clay mineral particles in different electrolyte aqueous solutions. <i>Powder Technology</i> , 2015, 283, 368-372.	4.2	34
10	Hydrophobic aggregation of fine particles in high muddied coal slurry water. <i>Water Science and Technology</i> , 2016, 73, 501-510.	2.5	33
11	Adsorption of different PAM structural units on kaolinite (001) surface: Density functional theory study. <i>Applied Surface Science</i> , 2020, 504, 144324.	6.1	32
12	Systematic exploration of the interactions between Fe-doped kaolinite and coal based on DFT calculations. <i>Fuel</i> , 2020, 266, 117082.	6.4	32
13	The flotation of aluminosilicate polymorphic minerals with anionic and cationic collectors. <i>Minerals Engineering</i> , 2016, 99, 123-132.	4.3	31
14	Atomic-level insights into the adsorption of rare earth Y(OH) ₃ -nn ⁺ (n ⁻ =1-3) ions on kaolinite surface. <i>Applied Surface Science</i> , 2019, 469, 357-367.	6.1	31
15	Molecular Dynamics Study of Crystalline Swelling of Montmorillonite as Affected by Interlayer Cation Hydration. <i>Jom</i> , 2018, 70, 479-484.	1.9	26
16	Application of gaseous pyrolysis products of the waste cooking oil as coal flotation collector. <i>Fuel</i> , 2019, 239, 446-451.	6.4	26
17	Fundamental study on removal of organic sulfur from coal by microwave irradiation. <i>International Journal of Mineral Processing</i> , 2015, 139, 31-35.	2.6	25
18	Effect of pores on the flotation of low-rank coal: An experiment and simulation study. <i>Fuel</i> , 2020, 271, 117557.	6.4	25

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#	ARTICLE	IF	CITATIONS
37	Insights into the influence mechanism of Mg ²⁺ doping on hydration activity of kaolinite surface: A DFT calculation. <i>Chemical Physics</i> , 2022, 560, 111576.	1.9	12
38	Mechanism of hydrolyzable metal ions effect on the zeta potential of fine quartz particles. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 298-304.	2.4	11
39	Hierarchically porous biochar templated by in situ formed ZnO for rapid Pb ²⁺ and Cd ²⁺ adsorption in wastewater: Experiment and molecular dynamics study. <i>Environmental Pollution</i> , 2022, 302, 119107.	7.5	11
40	Experiments and CFD-DEM simulations of fine kaolinite particle sedimentation dynamic characteristics in a water environment. <i>Powder Technology</i> , 2021, 382, 60-69.	4.2	10
41	The Dielectric Properties of Thiophene Model Compounds: Insights for Microwave Desulfurization of Coking Coal. <i>Energy & Fuels</i> , 2020, 34, 14101-14108.	5.1	10
42	Microstructural characterization and mechanical property of Fly Ash/Al-25Mg composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 1019-1022.	1.0	9
43	Improving Coal Flotation by Gaseous Collector Pretreatment Method and its Potential Application in Preparing Coal Water Slurry. <i>Processes</i> , 2019, 7, 500.	2.8	9
44	Effect of Hydration Layer on the Adsorption of Dodecane Collector on Low-Rank Coal: A Molecular Dynamics Simulation Study. <i>Processes</i> , 2020, 8, 1207.	2.8	9
45	Microstructure and thermo-mechanical properties of SiCp/Al composites prepared by pressureless infiltration. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1937-1940.	2.2	8
46	Promotion of Coal Slime Water Sedimentation and Filtration via Hydrophobic Coagulation. <i>International Journal of Coal Preparation and Utilization</i> , 2021, 41, 815-829.	2.1	8
47	Study on Hydration of Illite in K ⁺ , Na ⁺ , Ca ²⁺ , Mg ²⁺ , and Al ³⁺ Electrolyte Solutions. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019, 233, 721-735.	2.8	8
48	Study on the aggregation behavior of kaolinite particles in the presence of cationic, anionic and non-ionic surfactants. <i>PLoS ONE</i> , 2018, 13, e0204037.	2.5	7
49	Effect of inorganic cations on enhancing graphite/kerosene adsorption and reducing carbon emission in graphite flotation. <i>Fuel</i> , 2022, 314, 122740.	6.4	7
50	CHARACTERIZATIONS AND STABILITY OF COLLOIDAL COAL-MEASURE KAOLINITE IN AQUEOUS SUSPENSIONS: A REVIEW. <i>Surface Review and Letters</i> , 2013, 20, 1330001.	1.1	6
51	Hydration Layers on Clay Mineral Surfaces in Aqueous Solutions: a Review/Warstwy Uwodnione Na Powierzchni Minerale w Ilastych W Roztworach Wodnych: Przegląd. <i>Archives of Mining Sciences</i> , 2014, 59, 489-500.	0.6	6
52	Facile synthesis and enhanced microwave absorption properties of anthracite-based carbon/Ni ₃ Fe/NiO ternary composites. <i>New Journal of Chemistry</i> , 2020, 44, 13962-13970.	2.8	6
53	Extraction of Nano- \pm Al ₂ O ₃ and SiO ₂ from Fly Ash at Low Temperature Conditions. <i>Integrated Ferroelectrics</i> , 2013, 147, 8-16.	0.7	3
54	A NOVEL METHOD FOR THE DETERMINATION OF THE POINT OF ZERO NET PROTON CHARGE OF COLLOIDAL KAOLINITE IN AQUEOUS SOLUTIONS. <i>Surface Review and Letters</i> , 2016, 23, 1650023.	1.1	3

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55	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
56	Density Functional Theory Analysis of the Adsorption Interactions of Carbon Impurities in Coal-associated Kaolinite. Processes, 2019, 7, 782.	2.8	3
57	Facile Synthesis of Ternary TiO ₂ /Polyaniline/Graphene Composites with Enhanced Photocatalytic Performance towards Organic Dyes Removal. Russian Journal of Physical Chemistry A, 2021, 95, 1745-1755.	0.6	3
58	Investigation for Reaction Mechanism of Nano-Silica-Modified Cement-Based Composite Materials. Integrated Ferroelectrics, 2011, 129, 160-168.	0.7	2
59	Adsorption of Cr(OH) _n (n = 1-3) on Illite (001) and (010) Surfaces: A DFT Study. Processes, 2021, 9, 2048.	2.8	2
60	Effect of Zn ²⁺ content on the microstructure and magnetic properties of nanocrystalline Ni _{1-x} Zn _x Fe ₂ O ₄ ferrite by a spraying-coprecipitation method. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 429-431.	1.0	1
61	Research of reagent interaction on induction time during bubble-particle interaction. International Journal of Coal Preparation and Utilization, 0, , 1-17.	2.1	1
62	THE APPLICATION PROSPECT OF MICROCANTILEVER SENSORS TECHNOLOGY ON MINERAL SURFACE ADSORPTION. Surface Review and Letters, 2019, 26, 1830010.	1.1	0
63	Study on bubble penetrating solution/frother interface in the presence of ions. Powder Technology, 2022, 398, 117139.	4.2	0