Yunliang Zhao

List of Publications by Year
in descending order

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Version: 2024-02-01

98 papers	3,617 citations	156536 32 h-index	169272 56 g-index
98 all docs	98 docs citations	98 times ranked	2739 citing authors

#	Article	IF	Citations
1	Synthetic Fe-rich nontronite as a novel activator of bisulfite for the efficient removal of tetracycline. Journal of Environmental Management, 2022, 302, 114002.	3.8	5
2	Enhanced removal of refractory humic- and fulvic-like organics from biotreated landfill leachate by ozonation in packed bubble columns. Science of the Total Environment, 2022, 807, 150762.	3.9	20
3	High-performance nickel/iron catalysts for oxygen evolution in pH-near-neutral borate electrolyte synthesized by mechanochemical approach. Journal of Alloys and Compounds, 2022, 898, 162845.	2.8	7
4	A novel gasification exfoliation method of the preparation of anhydrous montmorillonite nanosheets for inhibiting restack problem suffering from dehydration. Applied Clay Science, 2022, 217, 106394.	2.6	3
5	Efficient dye removal using fixed-bed process based on porous montmorillonite nanosheet/poly(acrylamide-co-acrylic acid)/sodium alginate hydrogel beads. Applied Clay Science, 2022, 219, 106443.	2.6	36
6	Precise Cation Recognition in Two-Dimensional Nanofluidic Channels of Clay Membranes Imparted from Intrinsic Selectivity of Clays. ACS Nano, 2022, 16, 4930-4939.	7.3	43
7	Enhanced removal of fluoride from water through precise regulation of active aluminum phase using CaCO3. Environmental Science and Pollution Research, 2022, 29, 68555-68563.	2.7	4
8	Self-assembly hierarchical binary gel based on MXene and montmorillonite nanosheets for efficient and stable solar steam generation. Journal of Cleaner Production, 2022, 357, 132000.	4.6	19
9	Effect of exfoliation degree on the performance of montmorillonite nanosheets. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 650, 129661.	2.3	6
10	Effect of protonation and deprotonation reactions of clay on regulating pyrite flotation in the presence of clay. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 609, 125654.	2.3	3
11	Eco-friendly geopolymer prepared from solid wastes: A critical review. Chemosphere, 2021, 267, 128900.	4.2	134
12	Mechanical activation of zero-valent iron (ZVI) in the presence of CaCO3: Improved reactivity of ZVI for enhancing As(III) removal from water. Journal of Cleaner Production, 2021, 286, 124926.	4.6	31
13	Development of superior stable two-dimensional montmorillonite nanosheet based working nanofluids for direct solar energy harvesting and utilization. Applied Clay Science, 2021, 200, 105886.	2.6	16
14	Mineral Adsorbents and Characteristics. Engineering Materials, 2021, , 1-54.	0.3	0
15	Removal of heavy metals and dyes by clay-based adsorbents: From natural clays to 1D and 2D nano-composites. Chemical Engineering Journal, 2021, 420, 127574.	6.6	144
16	Use of posnjakite containing sludge as catalyst for decoloring dye via photo-Fenton-like process. Journal of Cleaner Production, 2021, 293, 126184.	4.6	17
17	Difference in the preparation of two-dimensional nanosheets of montmorillonite from different regions: Role of the layer charge density. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 617, 126364.	2.3	10
18	Synchronous photosensitized degradation of methyl orange and methylene blue in water by visible-light irradiation. Journal of Molecular Liquids, 2021, 334, 116159.	2.3	27

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19	Adsorption toward Pb(II) occurring on three-dimensional reticular-structured montmorillonite hydrogel surface. Applied Clay Science, 2021, 210, 106153.	2.6	33
20	Enhanced arsenic removal from water by mechanochemical synthesis of Caâ€“Alâ€“Fe ternary composites. Journal of Cleaner Production, 2021, 321, 128959.	4.6	24
21	Preparation and application of expanded and exfoliated vermiculite: A critical review. Chemical Physics, 2021, 550, 111313.	0.9	19
22	Utilization of carbonate-based tailings to remove Pb(II) from wastewater through mechanical activation. Science of the Total Environment, 2020, 698, 134270.	3.9	21
23	Design of 3D-network montmorillonite nanosheet/stearic acid shape-stabilized phase change materials for solar energy storage. Solar Energy Materials and Solar Cells, 2020, 204, 110233.	3.0	78
24	Self-assembled gels of Fe-chitosan/montmorillonite nanosheets: Dye degradation by the synergistic effect of adsorption and photo-Fenton reaction. Chemical Engineering Journal, 2020, 379, 122322.	6.6	202
25	Enhanced removal of methyl orange on exfoliated montmorillonite/chitosan gel in presence of methylene blue. Chemosphere, 2020, 238, 124693.	4.2	77
26	Synthesis of unique-morphological hollow microspheres of MoS2@montmorillonite nanosheets for the enhancement of photocatalytic activity and cycle stability. Journal of Materials Science and Technology, 2020, 41, 88-97.	5.6	38
27	High-performance two-dimensional montmorillonite supported-poly(acrylamide-co-acrylic acid) hydrogel for dye removal. Environmental Pollution, 2020, 257, 113574.	3.7	86
28	Microwave improving copper extraction from chalcopyrite through modifying the surface structure. Journal of Materials Research and Technology, 2020, 9, 263-270.	2.6	7
29	Synthesis of carboxymethyl cellulose-chitosan-montmorillonite nanosheets composite hydrogel for dye effluent remediation. International Journal of Biological Macromolecules, 2020, 165, 1-10.	3.6	61
30	Role of Montmorillonite, Kaolinite, or Illite in Pyrite Flotation: Differences in Clay Behavior Based on Their Structures. Langmuir, 2020, 36, 10860-10867.	1.6	30
31	Effect of magnesium ion on sylvite flotation: An experiment and molecular dynamic simulation study. Chemical Physics Letters, 2020, 752, 137586.	1.2	11
32	Atomic insights into flotation separation of KCl and NaCl from a new viewpoint of hydration layer: A molecular dynamic study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 602, 125071.	2.3	6
33	Effects of clay species on coal flotation under the cationic regulation. Chemical Physics Letters, 2020, 753, 137626.	1.2	3
34	Selective recovery of heavy metals from wastewater by mechanically activated calcium carbonate: Inspiration from nature. Chemosphere, 2020, 246, 125842.	4.2	24
35	Adsorption toward Cu(II) and inhibitory effect on bacterial growth occurring on molybdenum disulfide-montmorillonite hydrogel surface. Chemosphere, 2020, 248, 126025.	4.2	32
36	Preparation of ion-imprinted montmorillonite nanosheets/chitosan gel beads for selective recovery of Cu(â…¡) from wastewater. Chemosphere, 2020, 252, 126560.	4.2	43

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37	Regulation of coal flotation by the cations in the presence of clay. Fuel, 2020, 271, 117590.	3.4	15
38	Synthesis of rare earth tailing-based geopolymer for efficiently immobilizing heavy metals. Construction and Building Materials, 2020, 254, 119273.	3.2	76
39	A Case Study on Large-scale Grate-kiln Production of Fluxed Iron Oxide Pellets: Zhanjiang Pelletizing Plant of BaoSteel. Mineral Processing and Extractive Metallurgy Review, 2019, 40, 123-128.	2.6	7
40	Development of 2D-Mt/SA/AgNPs microencapsulation phase change materials for solar energy storage with enhancement of thermal conductivity and latent heat capacity. Solar Energy Materials and Solar Cells, 2019, 201, 110090.	3.0	37
41	Efficient As(III) removal directly as basic iron arsenite by in-situ generated Fe(III) hydroxide from ferrous sulfate on the surface of CaCO3. Applied Surface Science, 2019, 493, 569-576.	3.1	27
42	Correlation of aspect ratio of montmorillonite nanosheets with the colloidal properties in aqueous solutions. Results in Physics, 2019, 15, 102526.	2.0	15
43	Removal of Cu(II) from wastewater by using mechanochemically activated carbonate-based tailings through chemical precipitation. Environmental Science and Pollution Research, 2019, 26, 35198-35207.	2.7	11
44	Synthesis of chitosan cross-linked 3D network-structured hydrogel for methylene blue removal. International Journal of Biological Macromolecules, 2019, 141, 98-107.	3.6	55
45	Preparation of Montmorillonite Nanosheets through Freezing/Thawing and Ultrasonic Exfoliation. Langmuir, 2019, 35, 2368-2374.	1.6	68
46	A novel core-shell structural montmorillonite nanosheets/stearic acid composite PCM for great promotion of thermal energy storage properties. Solar Energy Materials and Solar Cells, 2019, 192, 57-64.	3.0	91
47	Pb(Î™Î™) removal from water using porous hydrogel of chitosan-2D montmorillonite. International Journal of Biological Macromolecules, 2019, 128, 85-93.	3.6	70
48	Synthesis of montmorillonite-chitosan hollow and hierarchical mesoporous spheres with single-template layer-by-layer assembly. Journal of Materials Science and Technology, 2019, 35, 2325-2330.	5.6	13
49	Enhanced arsenic removal from water and easy handling of the precipitate sludge by using FeSO4 with CaCO3 to Ca(OH)2. Chemosphere, 2019, 231, 134-139.	4.2	35
50	Effect of interlayer cations on exfoliating 2D montmorillonite nanosheets with high aspect ratio: From experiment to molecular calculation. Ceramics International, 2019, 45, 17054-17063.	2.3	16
51	Design of MtNS/SA microencapsulated phase change materials for enhancement of thermal energy storage performances: Effect of shell thickness. Solar Energy Materials and Solar Cells, 2019, 200, 109935.	3.0	31
52	Effect of anions species on copper removal from wastewater by using mechanically activated calcium carbonate. Chemosphere, 2019, 230, 127-135.	4.2	40
53	Formation of active Fe(OH)3 in situ for enhancing arsenic removal from water by the oxidation of Fe(II) in air with the presence of CaCO3. Journal of Cleaner Production, 2019, 227, 1-9.	4.6	55
54	A novel method for surface wettability modification of talc through thermal treatment. Applied Clay Science, 2019, 176, 21-28.	2.6	24

#	Article	IF	Citations
55	Purification and rapid dissolution of potassium sulfate in aqueous solutions. RSC Advances, 2019, 9, 2156-2161.	1.7	17
56	Correlation of Montmorillonite Sheet Thickness and Flame Retardant Behavior of a Chitosanâ€“Montmorillonite Nanosheet Membrane Assembled on Flexible Polyurethane Foam. Polymers, 2019, 11, 213.	2.0	19
57	Correlation of exfoliation performance with interlayer cations of montmorillonite in the preparation of twoâ€dimensional nanosheets. Journal of the American Ceramic Society, 2019, 102, 3908-3922.	1.9	29
58	The Life Cycle of Water Used in Flotation: a Review. Mining, Metallurgy and Exploration, 2019, 36, 385-397.	0.4	11
59	Driving force for the swelling of montmorillonite as affected by surface charge and exchangeable cations: A molecular dynamic study. Results in Physics, 2019, 12, 113-117.	2.0	36
60	Removal of methylene blue from water with montmorillonite nanosheets/chitosan hydrogels as adsorbent. Applied Surface Science, 2018, 448, 203-211.	3.1	208
61	A case study on large-scale production for iron oxide pellets: Ezhou pelletization plant of the BAOWU. Mineral Processing and Extractive Metallurgy Review, 2018, 39, 211-215.	2.6	8
62	Effect of layer charges on exfoliation of montmorillonite in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 548, 92-97.	2.3	24
63	Molecular dynamics simulations study for the effect of cations hydration on the surface tension of the electrolyte solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 539, 80-84.	2.3	35
64	Preparation and characterization of self-assembly hydrogels with exfoliated montmorillonite nanosheets and chitosan. Nanotechnology, 2018, 29, 025605.	1.3	27
65	Molecular Dynamics Study of Crystalline Swelling of Montmorillonite as Affected by Interlayer Cation Hydration. Jom, 2018, 70, 479-484.	0.9	26
66	Hydrophobic agglomeration of talc fines in aqueous suspensions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 327-332.	2.3	28
67	Evaluation of exfoliation degree of montmorillonite in aqueous dispersions through turbidity measurement. RSC Advances, 2018, 8, 40823-40828.	1.7	10
68	Methylene blue removal from water using the hydrogel beads of poly(vinyl alcohol)-sodium alginate-chitosan-montmorillonite. Carbohydrate Polymers, 2018, 198, 518-528.	5.1	299
69	Surface wettability of montmorillonite (0â€¯0â€¯1) surface as affected by surface charge and exchangeable cations: A molecular dynamic study. Applied Surface Science, 2018, 459, 148-154.	3.1	113
70	Vanadium Transitions during Roasting-Leaching Process of Vanadium Extraction from Stone Coal. Minerals (Basel, Switzerland), 2018, 8, 63.	0.8	17
71	Improvement of sylvite flotation from halite by starvation feeding the collector octadecylamine. RSC Advances, 2018, 8, 24182-24187.	1.7	4
72	Antibacterial activity of the sediment of copper removal from wastewater by using mechanically activated calcium carbonate. Journal of Cleaner Production, 2018, 203, 1019-1027.	4.6	31

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73	Electrophoretic mobility study for heterocoagulation of montmorillonite with fluorite in aqueous solutions. Powder Technology, 2017, 309, 61-67.	2.1	46
74	In-situ investigation on mineral phase transition during roasting of vanadium-bearing stone coal. Advanced Powder Technology, 2017, 28, 1103-1107.	2.0	25
75	Fabrication and mechanism of cement-based waterproof material using silicate tailings from reverse flotation. Powder Technology, 2017, 315, 422-429.	2.1	20
76	Correlation of electrophoretic mobility with exfoliation of montmorillonite platelets in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 525, 1-6.	2.3	21
77	A novel method for the quantitative determination of defects on graphene surfaces. Journal of Colloid and Interface Science, 2017, 499, 62-66.	5.0	10
78	Decomposition characteristics of compound additive and effect of roasting atmosphere on vanadium extraction from stone coal. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 374-380.	0.8	5
79	Delamination of Na-montmorillonite particles in aqueous solutions and isopropanol under shear forces. Journal of Dispersion Science and Technology, 2017, 38, 1117-1123.	1.3	6
80	Quantitative determination of isomorphous substitutions on clay mineral surfaces through AFM imaging: A case of mica. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 533, 55-60.	2.3	20
81	Correlation of montmorillonite exfoliation with interlayer cations in the preparation of two-dimensional nanosheets. RSC Advances, 2017, 7, 41471-41478.	1.7	49
82	Effect of microwave-assisted heating on chalcopyrite leaching of kinetics, interface temperature and surface energy. Results in Physics, 2017, 7, 2594-2600.	2.0	32
83	Adsorption of dodecylamine hydrochloride on graphene oxide in water. Results in Physics, 2017, 7, 2281-2288.	2.0	64
84	Comparison Study on the Effect of Interlayer Hydration and Solvation on Montmorillonite Delamination. Jom, 2017, 69, 254-260.	0.9	6
85	A novel method for determining the thickness of hydration shells on nanosheets: A case of montmorillonite in water. Powder Technology, 2017, 306, 74-79.	2.1	49
86	Stability of Na-montmorillonite suspension in the presence of different cations and valences. Journal of Dispersion Science and Technology, 2017, 38, 1035-1040.	1.3	7
87	Hydrophobic agglomeration kinetics of fine kaolinite particles in aqueous suspensions. Journal of Dispersion Science and Technology, 2017, 38, 1336-1341.	1.3	7
88	A Novel Model of Aggregate Gradation for Autoclaved Bricks from Tailings. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	0.8	6
89	Study on the differences of Na- and Ca-montmorillonites in crystalline swelling regime through molecular dynamics simulation. Advanced Powder Technology, 2016, 27, 779-785.	2.0	55
90	Improvement of compressive strength of lime mortar with carboxymethyl cellulose. Journal of Materials Science, 2016, 51, 9279-9286.	1.7	14

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91	Molecular dynamics simulations of hydration shell on montmorillonite (001) in water. Surface and Interface Analysis, 2016, 48, 976-980.	0.8	37
92	Behaviors of impurity elements Ca and Fe in vanadium-bearing stone coal during roasting and its control measure. International Journal of Mineral Processing, 2016, 148, 100-104.	2.6	15
93	Swelling Capacity of Montmorillonite in the Presence of Electrolytic Ions. Journal of Dispersion Science and Technology, 2016, 37, 380-385.	1.3	8
94	ELECTROKINETIC CHARACTERISTICS OF CALCINED KAOLINITE IN AQUEOUS ELECTROLYTIC SOLUTIONS. Surface Review and Letters, 2015, 22, 1550041.	0.5	1
95	Effect of Stone Coal Chemical Composition on Sintering Behavior during Roasting. Industrial & Engineering Chemistry Research, 2014, 53, 157-163.	1.8	22
96	Calculation of mineral phase and liquid phase formation temperature during roasting of vanadium-bearing stone coal using FactSage software. International Journal of Mineral Processing, 2013, 124, 150-153.	2.6	18
97	Pre-concentration of vanadium from stone coal by gravity separation. International Journal of Mineral Processing, 2013, 121, 1-5.	2.6	51
98	Preparation of high strength autoclaved bricks from hematite tailings. Construction and Building Materials, 2012, 28, 450-455.	3.2	75