

Hao Yi

List of Publications by Year in descending order

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45
papers

1,525
citations

346980

22
h-index

355658

38
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45
docs citations

45
times ranked

1236
citing authors

#	ARTICLE	IF	CITATIONS
1	Montmorillonite facilitated Pb(II) biomineralization by <i>Chlorella sorokiniana</i> FK in soil. <i>Journal of Hazardous Materials</i> , 2022, 423, 127007.	6.5	21
2	Three-dimensional montmorillonite/Ag nanowire aerogel supported stearic acid as composite phase change materials for superior solar-thermal energy harvesting and storage. <i>Composites Science and Technology</i> , 2022, 217, 109121.	3.8	49
3	3D-printed montmorillonite nanosheets based hydrogel with biocompatible polymers as excellent adsorbent for Pb(II) removal. <i>Separation and Purification Technology</i> , 2022, 283, 120176.	3.9	34
4	Double-layered montmorillonite/MoS ₂ aerogel with vertical channel for efficient and stable solar interfacial desalination. <i>Applied Clay Science</i> , 2022, 217, 106389.	2.6	17
5	Selective flotation separation of bastnaesite from dolomite using \hat{I}^2 -naphthyl sulfonate formaldehyde condensate as depressant: Experimental and calculational studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 639, 128380.	2.3	9
6	Simultaneous Recovery of Niobium and Sulfur from Carbonate Niobite Ore with Flotation. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 432.	0.8	1
7	Mechanically strong hectorite aerogel encapsulated octadecane as shape-stabilized phase change materials for thermal energy storage and management. <i>Applied Clay Science</i> , 2022, 223, 106511.	2.6	2
8	Development of superior stable two-dimensional montmorillonite nanosheet based working nanofluids for direct solar energy harvesting and utilization. <i>Applied Clay Science</i> , 2021, 200, 105886.	2.6	16
9	Activation of Fenton reaction by controllable oxygen incorporation in MoS ₂ -Fe under visible light irradiation. <i>Applied Surface Science</i> , 2021, 566, 150674.	3.1	15
10	Rich Se nanoparticles modified cobalt carbonate hydroxide as an efficient electrocatalyst for boosted hydrogen evolution in alkaline conditions. <i>Applied Surface Science</i> , 2021, 565, 150505.	3.1	13
11	Recent advances in engineering cobalt carbonate hydroxide for enhanced alkaline water splitting. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161405.	2.8	23
12	Design of 3D-network montmorillonite nanosheet/stearic acid shape-stabilized phase change materials for solar energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2020, 204, 110233.	3.0	78
13	Superior arsenate adsorption and comprehensive investigation of adsorption mechanism on novel Mn-doped La ₂ O ₂ CO ₃ composites. <i>Chemical Engineering Journal</i> , 2020, 391, 123623.	6.6	26
14	Effect of magnesium ion on sylvite flotation: An experiment and molecular dynamic simulation study. <i>Chemical Physics Letters</i> , 2020, 752, 137586.	1.2	11
15	Atomic insights into flotation separation of KCl and NaCl from a new viewpoint of hydration layer: A molecular dynamic study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125071.	2.3	6
16	Hydrophobic agglomeration of montmorillonite fines in aqueous solutions induced by dodecyl trimethyl ammonium bromides. <i>Chemical Physics Letters</i> , 2020, 739, 136999.	1.2	6
17	Development of 2D-Mt/SA/AgNPs microencapsulation phase change materials for solar energy storage with enhancement of thermal conductivity and latent heat capacity. <i>Solar Energy Materials and Solar Cells</i> , 2019, 201, 110090.	3.0	37
18	Synthesis of chitosan cross-linked 3D network-structured hydrogel for methylene blue removal. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 98-107.	3.6	55

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19	A novel core-shell structural montmorillonite nanosheets/stearic acid composite PCM for great promotion of thermal energy storage properties. <i>Solar Energy Materials and Solar Cells</i> , 2019, 192, 57-64.	3.0	91
20	Pb(II) removal from water using porous hydrogel of chitosan-2D montmorillonite. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 85-93.	3.6	70
21	Colloidal stability of silica and graphite in aqueous suspensions. <i>Chemical Physics</i> , 2019, 525, 110405.	0.9	7
22	Effect of interlayer cations on exfoliating 2D montmorillonite nanosheets with high aspect ratio: From experiment to molecular calculation. <i>Ceramics International</i> , 2019, 45, 17054-17063.	2.3	16
23	Design of MtNS/SA microencapsulated phase change materials for enhancement of thermal energy storage performances: Effect of shell thickness. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109935.	3.0	31
24	A novel method for surface wettability modification of talc through thermal treatment. <i>Applied Clay Science</i> , 2019, 176, 21-28.	2.6	24
25	Competition of Hg ²⁺ adsorption and surface oxidation on MoS ₂ surface as affected by sulfur vacancy defects. <i>Applied Surface Science</i> , 2019, 483, 521-528.	3.1	47
26	Hydrophobic agglomeration behaviors of clay minerals as affected by siloxane structure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 568, 36-42.	2.3	24
27	Correlation of exfoliation performance with interlayer cations of montmorillonite in the preparation of two-dimensional nanosheets. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3908-3922.	1.9	29
28	Driving force for the swelling of montmorillonite as affected by surface charge and exchangeable cations: A molecular dynamic study. <i>Results in Physics</i> , 2019, 12, 113-117.	2.0	36
29	Removal of methylene blue from water with montmorillonite nanosheets/chitosan hydrogels as adsorbent. <i>Applied Surface Science</i> , 2018, 448, 203-211.	3.1	208
30	Removal of graphene oxide from water by floc-flotation. <i>Separation and Purification Technology</i> , 2018, 202, 27-33.	3.9	21
31	AFM study on the wettability of mica and graphite modified with surfactant DTAB. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 1060-1064.	1.3	10
32	Molecular dynamics simulations study for the effect of cations hydration on the surface tension of the electrolyte solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 539, 80-84.	2.3	35
33	Preparation and characterization of self-assembly hydrogels with exfoliated montmorillonite nanosheets and chitosan. <i>Nanotechnology</i> , 2018, 29, 025605.	1.3	27
34	Hydrophobic agglomeration of talc fines in aqueous suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 327-332.	2.3	28
35	Thermal Modification of the Molybdenum Disulfide Surface for Tremendous Improvement of Hg ²⁺ Adsorption from Aqueous Solution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9065-9073.	3.2	48
36	Surface wettability of montmorillonite (001) surface as affected by surface charge and exchangeable cations: A molecular dynamic study. <i>Applied Surface Science</i> , 2018, 459, 148-154.	3.1	113

#	ARTICLE	IF	CITATIONS
37	Vanadium Transitions during Roasting-Leaching Process of Vanadium Extraction from Stone Coal. Minerals (Basel, Switzerland), 2018, 8, 63.	0.8	17
38	Can carboxymethyl cellulose molecules bind swelling montmorillonite layers in Water?. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 553, 515-519.	2.3	11
39	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
40	Correlation of montmorillonite exfoliation with interlayer cations in the preparation of two-dimensional nanosheets. RSC Advances, 2017, 7, 41471-41478.	1.7	49
41	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
42	Hydrophobic agglomeration kinetics of fine kaolinite particles in aqueous suspensions. Journal of Dispersion Science and Technology, 2017, 38, 1336-1341.	1.3	7
43	A Novel Model of Aggregate Gradation for Autoclaved Bricks from Tailings. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TFS	0.8	6
44	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
45	Molecular dynamics simulations of hydration shell on montmorillonite (001) in water. Surface and Interface Analysis, 2016, 48, 976-980.	0.8	37