

# Huaming Yang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3878595/publications.pdf>

Version: 2024-02-01

236  
papers

10,653  
citations

22153

59  
h-index

51608

86  
g-index

242  
all docs

242  
docs citations

242  
times ranked

10479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Green assembly of stable and uniform silver nanoparticles on 2D silica nanosheets for catalytic reduction of 4-nitrophenol. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 23-30.	20.2	242
2	Trimetallic FeCoNi@C Nanocomposite Hollow Spheres Derived from Metal-Organic Frameworks with Superior Electromagnetic Wave Absorption Ability. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39304-39314.	8.0	238
3	Applications and interfaces of halloysite nanocomposites. <i>Applied Clay Science</i> , 2016, 119, 8-17.	5.2	235
4	Amine-Impregnated Mesoporous Silica Nanotube as an Emerging Nanocomposite for CO <sub>2</sub> Capture. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17312-17320.	8.0	201
5	CuO nanoparticles encapsulated inside Al-MCM-41 mesoporous materials via direct synthetic route. <i>Scientific Reports</i> , 2014, 4, 3682.	3.3	165
6	Electrochemical synthesis and photocatalytic property of cuprous oxide nanoparticles. <i>Materials Research Bulletin</i> , 2006, 41, 1310-1318.	5.2	158
7	Perovskite LaFeO <sub>3</sub> /montmorillonite nanocomposites: synthesis, interface characteristics and enhanced photocatalytic activity. <i>Scientific Reports</i> , 2016, 6, 19723.	3.3	157
8	Emerging Parallel Dual 2D Composites: Natural Clay Mineral Hybridizing MoS <sub>2</sub> and Interfacial Structure. <i>Advanced Functional Materials</i> , 2016, 26, 2666-2675.	14.9	157
9	Palladium nanoparticles deposited on silanized halloysite nanotubes: synthesis, characterization and enhanced catalytic property. <i>Scientific Reports</i> , 2013, 3, 2948.	3.3	149
10	Sol-gel synthesis of TiO <sub>2</sub> nanoparticles and photocatalytic degradation of methyl orange in aqueous TiO <sub>2</sub> suspensions. <i>Journal of Alloys and Compounds</i> , 2006, 413, 302-306.	5.5	147
11	Surface Design Strategy of Catalysts for Water Electrolysis. <i>Small</i> , 2022, 18, .	10.0	138
12	Chitosan modified halloysite nanotubes as emerging porous microspheres for drug carrier. <i>Applied Clay Science</i> , 2016, 126, 306-312.	5.2	134
13	Formation of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles by mechanochemical reaction. <i>Materials Research Bulletin</i> , 2004, 39, 833-837.	5.2	133
14	From Natural Attapulgite to Mesoporous Materials: Methodology, Characterization and Structural Evolution. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2390-2398.	2.6	132
15	Mechanochemical synthesis of cobalt oxide nanoparticles. <i>Materials Letters</i> , 2004, 58, 387-389.	2.6	128
16	Halloysite Nanotubes Supported Ag and ZnO Nanoparticles with Synergistically Enhanced Antibacterial Activity. <i>Nanoscale Research Letters</i> , 2017, 12, 135.	5.7	128
17	Mechanochemical synthesis of zinc oxide nanocrystalline. <i>Powder Technology</i> , 2006, 168, 148-151.	4.2	126
18	Synthesis of WO <sub>3</sub> /TiO <sub>2</sub> nanocomposites via sol-gel method. <i>Journal of Alloys and Compounds</i> , 2005, 398, 200-202.	5.5	110

#	ARTICLE	IF	CITATIONS
19	Emerging Nanoclay Composite for Effective Hemostasis. <i>Advanced Functional Materials</i> , 2018, 28, 1704452.	14.9	106
20	Degradation of Congo Red dye by a Fe <sub>2</sub> O <sub>3</sub> @CeO <sub>2</sub> -ZrO <sub>2</sub> /Palygorskite composite catalyst: Synergetic effects of Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Colloid and Interface Science</i> , 2019, 539, 135-145.	9.4	106
21	Solid-state synthesis and electrochemical property of SnO <sub>2</sub> /NiO nanomaterials. <i>Journal of Alloys and Compounds</i> , 2008, 459, 98-102.	5.5	104
22	In situ loading of highly-dispersed CuO nanoparticles on hydroxyl-group-rich SiO <sub>2</sub> -AlOOH composite nanosheets for CO catalytic oxidation. <i>Chemical Engineering Journal</i> , 2017, 316, 1035-1046.	12.7	104
23	Luminescent and photocatalytic properties of cadmium sulfide nanoparticles synthesized via microwave irradiation. <i>Materials Chemistry and Physics</i> , 2005, 90, 155-158.	4.0	101
24	Hierarchical MoS <sub>2</sub> intercalated clay hybrid nanosheets with enhanced catalytic activity. <i>Nano Research</i> , 2017, 10, 570-583.	10.4	100
25	Insight into the physicochemical aspects of kaolins with different morphologies. <i>Applied Clay Science</i> , 2013, 74, 58-65.	5.2	99
26	Natural halloysite nanotubes modified as an aspirin carrier. <i>RSC Advances</i> , 2014, 4, 44197-44202.	3.6	96
27	Stearic acid modified montmorillonite as emerging microcapsules for thermal energy storage. <i>Applied Clay Science</i> , 2017, 138, 100-106.	5.2	96
28	Synthesis of tin oxide nanoparticles by mechanochemical reaction. <i>Journal of Alloys and Compounds</i> , 2004, 363, 276-279.	5.5	94
29	Kaolinite stabilized paraffin composite phase change materials for thermal energy storage. <i>Applied Clay Science</i> , 2015, 115, 212-220.	5.2	94
30	Lauric acid/modified sepiolite composite as a form-stable phase change material for thermal energy storage. <i>Applied Clay Science</i> , 2017, 146, 14-22.	5.2	94
31	Single Step Synthesis of High-Purity CoO Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8006-8013.	2.6	88
32	Microwave-assisted synthesis of ceria nanoparticles. <i>Materials Research Bulletin</i> , 2005, 40, 1690-1695.	5.2	87
33	Nanoclay-modulated oxygen vacancies of metal oxide. <i>Communications Chemistry</i> , 2019, 2, .	4.5	84
34	Sol-Gel Synthesis and Photocatalytic Activity of CeO <sub>2</sub> /TiO <sub>2</sub> Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1370-1374.	3.8	81
35	Synthesis and characterization of ZnO/palygorskite. <i>Applied Clay Science</i> , 2010, 50, 362-366.	5.2	81
36	Metal oxide nanoparticles deposited onto carbon-coated halloysite nanotubes. <i>Applied Clay Science</i> , 2014, 95, 252-259.	5.2	81

#	ARTICLE	IF	CITATIONS
37	Microwave-assisted synthesis and luminescent properties of pure and doped ZnS nanoparticles. <i>Journal of Alloys and Compounds</i> , 2005, 402, 274-277.	5.5	80
38	Preparation and characterization of Co-doped ZnO nanomaterials. <i>Materials Chemistry and Physics</i> , 2009, 114, 279-282.	4.0	78
39	Aqueous Zn-based rechargeable batteries: Recent progress and future perspectives. <i>Informa Materials</i> , 2022, 4, .	17.3	77
40	Robust hemostatic bandages based on nanoclay electrospun membranes. <i>Nature Communications</i> , 2021, 12, 5922.	12.8	75
41	Carbon hybridized halloysite nanotubes for high-performance hydrogen storage capacities. <i>Scientific Reports</i> , 2015, 5, 12429.	3.3	73
42	Stearic acid hybridizing coal-series kaolin composite phase change material for thermal energy storage. <i>Applied Clay Science</i> , 2014, 101, 277-281.	5.2	71
43	Engineering a tubular mesoporous silica nanocontainer with well-preserved clay shell from natural halloysite. <i>Nano Research</i> , 2017, 10, 2782-2799.	10.4	71
44	Novel synthesis and characterization of nanosized $\beta$ -Al <sub>2</sub> O <sub>3</sub> from kaolin. <i>Applied Clay Science</i> , 2010, 47, 438-443.	5.2	70
45	Preparation of porous material from talc by mechanochemical treatment and subsequent leaching. <i>Applied Clay Science</i> , 2006, 31, 290-297.	5.2	69
46	Pd/Fe <sub>2</sub> O <sub>3</sub> with Electronic Coupling Single-Site Pd-Fe Pair Sites for Low-Temperature Semihydrogenation of Alkynes. <i>Journal of the American Chemical Society</i> , 2022, 144, 573-581.	18.7	69
47	Investigation of the physicochemical aspects from natural kaolin to Al-MCM-41 mesoporous materials. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 216-222.	9.4	68
48	Insights into the physicochemical aspects from natural halloysite to silica nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 414, 115-119.	4.7	67
49	Precious-Metal Nanoparticles Anchored onto Functionalized Halloysite Nanotubes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 5507-5514.	3.7	67
50	Novel 2D Nanosheets with Potential Applications in Heavy Metal Purification: A Review. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801094.	3.7	67
51	Intercalated 2D nanoclay for emerging drug delivery in cancer therapy. <i>Nano Research</i> , 2017, 10, 2633-2643.	10.4	66
52	Novel synthesis of ordered mesoporous materials Al-MCM-41 from bentonite. <i>Applied Clay Science</i> , 2010, 47, 351-355.	5.2	65
53	Enhanced performance and interfacial investigation of mineral-based composite phase change materials for thermal energy storage. <i>Scientific Reports</i> , 2013, 3, 1908.	3.3	64
54	Chemically modified kaolinite nanolayers for the removal of organic pollutants. <i>Applied Clay Science</i> , 2018, 157, 283-290.	5.2	64

#	ARTICLE	IF	CITATIONS
55	Enhanced thermal conductivity of form-stable composite phase-change materials with graphite hybridizing expanded perlite/paraffin. <i>Solar Energy</i> , 2020, 209, 85-95.	6.1	64
56	Microwave synthesis of nanocrystalline Sb <sub>2</sub> S <sub>3</sub> and its electrochemical properties. <i>Materials Research Bulletin</i> , 2007, 42, 1357-1363.	5.2	63
57	High morphological stability and structural transition of halloysite (Hunan, China) in heat treatment. <i>Applied Clay Science</i> , 2014, 101, 16-22.	5.2	63
58	Highly dispersed sepiolite-based organic modified nanofibers for enhanced adsorption of Congo red. <i>Applied Clay Science</i> , 2018, 157, 76-85.	5.2	60
59	Co <sub>3</sub> O <sub>4</sub> nanoparticles on the surface of halloysite nanotubes. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 789-795.	0.8	59
60	Enhancing dispersion of halloysite nanotubes via chemical modification. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 281-288.	0.8	58
61	Carbon hybridized montmorillonite nanosheets: preparation, structural evolution and enhanced adsorption performance. <i>Chemical Communications</i> , 2017, 53, 6085-6088.	4.1	58
62	Characterization and synergetic antibacterial properties of ZnO and CeO <sub>2</sub> supported by halloysite. <i>Applied Surface Science</i> , 2017, 420, 833-838.	6.1	58
63	Amino-functionalized hierarchical porous SiO <sub>2</sub> -AlOOH composite nanosheets with enhanced adsorption performance. <i>Journal of Hazardous Materials</i> , 2018, 344, 1090-1100.	12.4	58
64	Radical guided selective loading of silver nanoparticles at interior lumen and out surface of halloysite nanotubes. <i>Materials and Design</i> , 2016, 110, 169-178.	7.0	56
65	Composite of Coal-Series Kaolinite and Capric-Lauric Acid as Form-Stable Phase-Change Material. <i>Energy Technology</i> , 2015, 3, 77-83.	3.8	55
66	Synthesis of ZnFe <sub>2</sub> O <sub>4</sub> nanocrystallites by mechanochemical reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 1329-1332.	4.0	54
67	Porous ceramic stabilized phase change materials for thermal energy storage. <i>RSC Advances</i> , 2016, 6, 48033-48042.	3.6	54
68	Precursor-Engineering Coupled Microwave Molten-Salt Strategy Enhances Photocatalytic Hydrogen Evolution Performance of g-C <sub>3</sub> N <sub>4</sub> Nanostructures. <i>ChemSusChem</i> , 2020, 13, 827-837.	6.8	54
69	Utilization of iron tailings to prepare high-surface area mesoporous silica materials. <i>Science of the Total Environment</i> , 2020, 736, 139483.	8.0	54
70	Preparation and enhanced photocatalytic activity of Pd-CuO/palygorskite nanocomposites. <i>Applied Clay Science</i> , 2013, 74, 87-94.	5.2	53
71	A heterogeneous Fenton reaction system of N-doped TiO <sub>2</sub> anchored on sepiolite activates peroxymonosulfate under visible light irradiation. <i>Chemical Engineering Journal</i> , 2020, 383, 123142.	12.7	53
72	Mineral Modulated Single Atom Catalyst for Effective Water Treatment. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	53

#	ARTICLE	IF	CITATIONS
73	Halloysite nanotubes coated with magnetic nanoparticles. <i>Applied Clay Science</i> , 2012, 56, 97-102.	5.2	52
74	Emerging integrated nanoclay-facilitated drug delivery system for papillary thyroid cancer therapy. <i>Scientific Reports</i> , 2016, 6, 33335.	3.3	52
75	Tailoring Mesoporous $\gamma$ - $\text{Al}_2\text{O}_3$ Properties by Transition Metal Doping: A Combined Experimental and Computational Study. <i>Chemistry of Materials</i> , 2017, 29, 1338-1349.	6.7	52
76	Assembling strategy to synthesize palladium modified kaolin nanocomposites with different morphologies. <i>Scientific Reports</i> , 2015, 5, 13763.	3.3	50
77	Hierarchical nano-activated silica nanosheets for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2017, 167, 140-149.	6.2	50
78	Textural properties determined CO <sub>2</sub> capture of tetraethylenepentamine loaded SiO <sub>2</sub> nanowires from $\gamma$ -sepiolite. <i>Chemical Engineering Journal</i> , 2018, 337, 342-350.	12.7	50
79	Synthesis and optical properties of mesoporous MCM-41 containing doped TiO <sub>2</sub> nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 339, 111-117.	4.7	49
80	Insights into the nature of Cu doping in amorphous mesoporous alumina. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14592.	10.3	49
81	$\text{Fe}_2\text{O}_3$ nanoparticles anchored on 2D kaolinite with enhanced antibacterial activity. <i>Chemical Communications</i> , 2017, 53, 6255-6258.	4.1	48
82	Expanded Vermiculite/Paraffin Composite as a Solar Thermal Energy Storage Material. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2793-2798.	3.8	47
83	Evaluation of aluminum dross as raw material for high-alumina refractory. <i>Ceramics International</i> , 2014, 40, 12585-12590.	4.8	47
84	Pd Nanoparticles and MOFs Synergistically Hybridized Halloysite Nanotubes for Hydrogen Storage. <i>Nanoscale Research Letters</i> , 2017, 12, 240.	5.7	47
85	PANI/BaFe <sub>12</sub> O <sub>19</sub> @Halloysite ternary composites as novel microwave absorbent. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 137-148.	9.4	47
86	Synthesis and catalytic activity of doped TiO <sub>2</sub> -palygorskite composites. <i>Applied Clay Science</i> , 2011, 53, 80-84.	5.2	46
87	Investigation of the Oxygen Exchange Property and Oxygen Storage Capacity of $\text{Ce}_x\text{Zr}_{1-x}\text{O}_2$ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6921-6928.	3.1	45
88	Lithium orthosilicate with halloysite as silicon source for high temperature CO <sub>2</sub> capture. <i>RSC Advances</i> , 2016, 6, 44106-44112.	3.6	44
89	Chemical Precipitation Synthesis and Optical Properties of ZnO/SiO <sub>2</sub> Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1591-1596.	3.8	42
90	Thermodynamic modeling of the Mg-Si system with the Kaptay equation for the excess Gibbs energy of the liquid phase. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2009, 33, 673-678.	1.6	42

#	ARTICLE	IF	CITATIONS
91	Silver nanoparticles assembled on modified sepiolite nanofibers for enhanced catalytic reduction of 4-nitrophenol. <i>Applied Clay Science</i> , 2018, 166, 166-173.	5.2	42
92	Defect Electrocatalysts and Alkaline Electrolyte Membranes in Solid-State Zinc-Air Batteries: Recent Advances, Challenges, and Future Perspectives. <i>Small Methods</i> , 2021, 5, e2000868.	8.6	42
93	Membrane Engineering of Colloidosome Microcompartments Using Partially Hydrophobic Mesoporous Silica Nanoparticles. <i>Langmuir</i> , 2014, 30, 15047-15052.	3.5	41
94	Halloysite nanotubes as hydrogen storage materials. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 323-331.	0.8	41
95	Magnetic Field-Assisted Photoelectrochemical Water Splitting: The Photoelectrodes Have Weaker Nonradiative Recombination of Carrier. <i>ACS Catalysis</i> , 2021, 11, 1242-1247.	11.2	41
96	Acid-hybridized expanded perlite as a composite phase-change material in wallboards. <i>RSC Advances</i> , 2015, 5, 66134-66140.	3.6	40
97	Polyethyleneimine (PEI) loaded MgO-SiO <sub>2</sub> nanofibers from sepiolite minerals for reusable CO <sub>2</sub> capture/release applications. <i>Applied Clay Science</i> , 2018, 152, 267-275.	5.2	40
98	Direct synthesis of Sb <sub>2</sub> O <sub>3</sub> nanoparticles via hydrolysis-precipitation method. <i>Journal of Alloys and Compounds</i> , 2007, 428, 327-331.	5.5	39
99	Synthesis and characterization of nesquehonite (MgCO <sub>3</sub> ·3H <sub>2</sub> O) powders from natural talc. <i>Powder Technology</i> , 2016, 292, 169-175.	4.2	39
100	Mineralogy and Physico-Chemical Data of Two Newly Discovered Halloysite in China and Their Contrasts with Some Typical Minerals. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 108.	2.0	39
101	An emerging mineral-based composite flame retardant coating: Preparation and enhanced fireproof performance. <i>Surface and Coatings Technology</i> , 2019, 367, 118-126.	4.8	39
102	Highly ordered and hexagonal mesoporous silica materials with large specific surface from natural rectorite mineral. <i>Microporous and Mesoporous Materials</i> , 2019, 279, 53-60.	4.4	39
103	Cobalt Ferrite Nanoparticles Prepared by Coprecipitation/Mechanochemical Treatment. <i>Chemistry Letters</i> , 2004, 33, 826-827.	1.3	38
104	Synthesis, characterization and computational simulation of visible-light irradiated fluorine-doped titanium oxide thin films. <i>Journal of Materials Chemistry</i> , 2009, 19, 6907.	6.7	38
105	Interfacial Chemical-Bond-Modulated Charge Transfer of Heterostructures for Improving Photocatalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9872-9880.	8.0	38
106	Porous carbon-based MgAlF <sub>5</sub> ·1.5H <sub>2</sub> O composites derived from carbon-coated clay presenting super high adsorption capacity for Congo Red. <i>Chemical Engineering Journal</i> , 2021, 406, 126784.	12.7	37
107	Attachment of nickel oxide nanoparticles on the surface of palygorskite nanofibers. <i>Journal of Colloid and Interface Science</i> , 2012, 384, 55-60.	9.4	36
108	Emerging paraffin/carbon-coated nanoscroll composite phase change material for thermal energy storage. <i>Renewable Energy</i> , 2020, 152, 579-589.	8.9	36

#	ARTICLE	IF	CITATIONS
109	Synthesis and electrical property of antimony-doped tin oxide powders with barite matrix. <i>Journal of Alloys and Compounds</i> , 2008, 453, 292-297.	5.5	35
110	Tungsten tailing powders activated for use as cementitious material. <i>Powder Technology</i> , 2015, 286, 678-683.	4.2	35
111	Three-way catalytic performances of Pd loaded halloysite-Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> hybrid materials. <i>Applied Clay Science</i> , 2016, 121-122, 63-70.	5.2	35
112	CO <sub>2</sub> capturing performances of millimeter scale beads made by tetraethylenepentamine loaded ultra-fine palygorskite powders from jet pulverization. <i>Chemical Engineering Journal</i> , 2018, 341, 432-440.	12.7	35
113	Large-scale synthesis of sub-micro sized halloysite-composed CZA with enhanced catalysis performances. <i>Applied Clay Science</i> , 2018, 152, 221-229.	5.2	35
114	Optical, Electrochemical and Hydrophilic Properties of Y <sub>2</sub> O <sub>3</sub> Doped TiO <sub>2</sub> Nanocomposite Films. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16271-16279.	2.6	33
115	Mesoporous material Al-MCM-41 from natural halloysite. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 497-503.	0.8	33
116	A nanoclay-induced defective g-C <sub>3</sub> N <sub>4</sub> photocatalyst for highly efficient catalytic reactions. <i>Chemical Communications</i> , 2018, 54, 8249-8252.	4.1	33
117	Large surface area mesoporous Al <sub>2</sub> O <sub>3</sub> from kaolin: Methodology and characterization. <i>Applied Clay Science</i> , 2010, 50, 554-559.	5.2	31
118	Substitutional Doping for Aluminosilicate Mineral and Superior Water Splitting Performance. <i>Nanoscale Research Letters</i> , 2017, 12, 456.	5.7	31
119	Preparation of CdO nanoparticles by mechanochemical reaction. <i>Journal of Nanoparticle Research</i> , 2004, 6, 539-542.	1.9	30
120	Controlled Assembly of Sb <sub>2</sub> S <sub>3</sub> Nanoparticles on Silica/Polymer Nanotubes: Insights into the Nature of Hybrid Interfaces. <i>Scientific Reports</i> , 2013, 3, 1336.	3.3	30
121	In <sub>2</sub> O <sub>3</sub> nanoparticles synthesized by mechanochemical processing. <i>Scripta Materialia</i> , 2004, 50, 413-415.	5.2	29
122	Structural characterization and gas sensing property of Cd-doped SnO <sub>2</sub> nanocrystallites synthesized by mechanochemical reaction. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 127-132.	7.8	29
123	CO <sub>2</sub> mineral sequestration by wollastonite carbonation. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 489-496.	0.8	29
124	Pd hybridizing ZnO/kaolinite nanocomposites: Synthesis, microstructure, and enhanced photocatalytic property. <i>Applied Clay Science</i> , 2014, 100, 43-49.	5.2	29
125	Y <sub>2</sub> O <sub>3</sub> functionalized natural palygorskite as an adsorbent for methyl blue removal. <i>RSC Advances</i> , 2016, 6, 41765-41771.	3.6	29
126	Highly stable hierarchical porous nanosheet composite phase change materials for thermal energy storage. <i>Applied Thermal Engineering</i> , 2019, 163, 114417.	6.0	29



#	ARTICLE	IF	CITATIONS
127	Insight into the effect of crystallographic structure on thermal conductivity of kaolinite nanoclay. <i>Applied Clay Science</i> , 2019, 173, 12-18.	5.2	29
128	Application of layered nanoclay in electrochemical energy: Current status and future. <i>EnergyChem</i> , 2021, 3, 100062.	19.1	29
129	Electronic Metal-Support Interaction Modulation of Single-Atom Electrocatalysts for Rechargeable Zinc-Air Batteries. <i>Small Methods</i> , 2022, 6, e2100947.	8.6	29
130	Au nanoparticles assembled on palygorskite: Enhanced catalytic property and Au-Au <sub>2</sub> O <sub>3</sub> coexistence. <i>Journal of Molecular Catalysis A</i> , 2013, 379, 219-224.	4.8	27
131	One-step synthesis of highly ordered Pt/MCM-41 from natural diatomite and the superior capacity in hydrogen storage. <i>Applied Clay Science</i> , 2014, 99, 246-253.	5.2	27
132	Novel preparation of glass ceramics from amorphized tungsten tailings. <i>Ceramics International</i> , 2014, 40, 10291-10296.	4.8	27
133	Sepiolite supported stearic acid composites for thermal energy storage. <i>RSC Advances</i> , 2016, 6, 112493-112501.	3.6	27
134	Functionalized 2D Clay Derivative: Hybrid Nanosheets with Unique Lead Sorption Behaviors and Interface Structure. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700934.	3.7	27
135	Simple Synthesis and Characterization of Hexagonal and Ordered Al-MCM-41 from Natural Perlite. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 264.	2.0	27
136	Synthesis and optical properties of yttria-doped ZrO <sub>2</sub> nanopowders. <i>Journal of Alloys and Compounds</i> , 2008, 458, 474-478.	5.5	26
137	Synthesis and characterization of Sb-SnO <sub>2</sub> /kaolinites nanoparticles. <i>Applied Clay Science</i> , 2012, 55, 151-157.	5.2	26
138	Modified wollastonite sequestering CO <sub>2</sub> and exploratory application of the carbonation products. <i>RSC Advances</i> , 2016, 6, 78090-78099.	3.6	26
139	Effect of Basalt Fibers for Reinforcing Resin-Based Brake Composites. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 490.	2.0	26
140	Mechanosynthesis and gas-sensing properties of In <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> nanocomposites. <i>Nanotechnology</i> , 2006, 17, 2860-2864.	2.6	25
141	Au encapsulated into Al-MCM-41 mesoporous material: in situ synthesis and electronic structure. <i>RSC Advances</i> , 2015, 5, 20414-20423.	3.6	25
142	Mineral carbonation of a desulfurization residue for CO <sub>2</sub> sequestration. <i>RSC Advances</i> , 2015, 5, 67184-67194.	3.6	25
143	Interactions between two-dimensional nanoclay and blood cells in hemostasis. <i>Materials Science and Engineering C</i> , 2019, 105, 110081.	7.3	25
144	Morphology-controllable Li <sub>2</sub> SiO <sub>3</sub> nanostructures. <i>CrystEngComm</i> , 2014, 16, 4501-4507.	2.6	24

#	ARTICLE	IF	CITATIONS
145	Tailoring the Electronic Structure of Mesoporous Spinel $\hat{3}\text{-Al}_{2}\text{O}_{3}$ at Atomic Level: Cu-Doped Case. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14299-14315.	3.1	24
146	Shape controlled synthesis and optical properties of Cu <sub>2</sub> O micro-spheres and octahedrons. <i>Materials and Design</i> , 2016, 92, 261-267.	7.0	24
147	Textual properties and catalytic performances of halloysite hybrid CeO <sub>2</sub> -ZrO <sub>2</sub> nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 430-436.	9.4	24
148	Efficient Nanoclay-Based Composite Photocatalyst: The Role of Nanoclay in Photogenerated Charge Separation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25900-25908.	3.1	24
149	Sepiolite/Fe <sub>3</sub> O <sub>4</sub> composite for effective degradation of diuron. <i>Applied Clay Science</i> , 2019, 181, 105243.	5.2	24
150	Lanthanum compounds-modified rectorite composites for highly efficient phosphate removal from wastewater. <i>Applied Clay Science</i> , 2020, 199, 105875.	5.2	24
151	Fluorescence and room temperature activity of $\text{Y}_{2}\text{O}_{3}:(\text{Eu}^{3+},\text{Au}^{3+})/\text{palygorskite}$ nanocomposite. <i>Dalton Transactions</i> , 2015, 44, 1673-1679.	3.3	23
152	Surface redox characters and synergetic catalytic properties of macroporous ceria-zirconia solid solutions. <i>Journal of Hazardous Materials</i> , 2019, 366, 54-64.	12.4	23
153	Magnetic carbon-coated palygorskite loaded with cobalt nanoparticles for Congo Red removal from waters. <i>Applied Clay Science</i> , 2020, 198, 105856.	5.2	22
154	A novel and improved hydrophilic vanadium oxide-based cathode for aqueous Zn-ion batteries. <i>Electrochimica Acta</i> , 2020, 354, 136721.	5.2	22
155	3D ordered macro-mesoporous indium doped Al <sub>2</sub> O <sub>3</sub> . <i>CrystEngComm</i> , 2013, 15, 6046.	2.6	21
156	ZnS/HALLOYSITE NANOCOMPOSITES: SYNTHESIS, CHARACTERIZATION AND ENHANCED PHOTOCATALYTIC ACTIVITY. <i>Functional Materials Letters</i> , 2013, 06, 1350013.	1.2	21
157	Microwave-assisted synthesis and interfacial features of CdS/kaolinite nanocomposite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 72-79.	4.7	21
158	Intercalation and Exfoliation of Kaolinite with Sodium Dodecyl Sulfate. <i>Minerals (Basel)</i> , 2020, 10, 222.	2.0	21
159	Stearic acid hybridizing kaolinite as shape-stabilized phase change material for thermal energy storage. <i>Applied Clay Science</i> , 2019, 183, 105358.	5.2	21
160	The unique interconnected structure of hollow carbon skeleton doped by F and N facilitating rapid Li ions diffusion in lithium-sulfur batteries. <i>Carbon</i> , 2022, 195, 207-218.	10.3	21
161	Novel sensible thermal storage material from natural minerals. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 681-689.	0.8	20
162	Effect of Mechanochemical Processing on Illite Particles. <i>Particle and Particle Systems Characterization</i> , 2005, 22, 207-211.	2.3	19

#	ARTICLE	IF	CITATIONS
163	Polypropylene/combinational inorganic filler micro/nanocomposites: Synergistic effects of micro/nanoscale combinational inorganic fillers on their mechanical properties. <i>Journal of Applied Polymer Science</i> , 2010, 115, 624-634.	2.6	19
164	Tin Oxide-Carbon-Coated Sepiolite Nanofibers with Enhanced Lithium-Ion Storage Property. <i>Nanoscale Research Letters</i> , 2017, 12, 215.	5.7	19
165	Multiple polarization loss and permittivity adjusting of halloysite/BN Co-doped carbon/cobalt composites. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 509-518.	9.4	19
166	Facile synthesis and characterization of macro/mesoporous $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 371, 126-130.	4.7	18
167	An emerging dual collaborative strategy for high-performance tumor therapy with mesoporous silica nanotubes loaded with Mn <sub>3</sub> O <sub>4</sub> . <i>Journal of Materials Chemistry B</i> , 2016, 4, 7406-7414.	5.8	18
168	Structure and Electronic Properties of Transition Metal Doped Kaolinite Nanoclay. <i>Nanoscale Research Letters</i> , 2017, 12, 411.	5.7	18
169	Evolution of the crystallographic structure and physicochemical aspects of rectorite upon calcination. <i>Applied Clay Science</i> , 2020, 185, 105374.	5.2	18
170	Efficient activation of peroxymonosulfate by iron-containing mesoporous silica catalysts derived from iron tailings for degradation of organic pollutants. <i>Chemical Engineering Journal</i> , 2022, 446, 137044.	12.7	18
171	Solvothermal synthesis and optical properties of Mn <sup>2+</sup> -doped SrTiO <sub>3</sub> powders. <i>Journal of Alloys and Compounds</i> , 2009, 485, 351-355.	5.5	17
172	Insight into the nature of Au-Au <sub>2</sub> O <sub>3</sub> functionalized palygorskite. <i>Applied Clay Science</i> , 2014, 100, 118-122.	5.2	17
173	A novel strategy to the synthesis of Na <sub>3</sub> YSi <sub>2</sub> O <sub>7</sub> from natural palygorskite. <i>Applied Clay Science</i> , 2014, 101, 339-344.	5.2	17
174	Surface modified halloysite nanotubes with different lumen diameters as drug carriers for cancer therapy. <i>Chemical Communications</i> , 2021, 57, 9470-9473.	4.1	17
175	A new nanoclay-based bifunctional hybrid fiber membrane with hemorrhage control and wound healing for emergency self-rescue. <i>Materials Today Advances</i> , 2021, 12, 100190.	5.2	17
176	Enhanced photoluminescence property of SnO <sub>2</sub> nanoparticles contained in mesoporous silica synthesized with leached talc as Si source. <i>Microporous and Mesoporous Materials</i> , 2007, 102, 204-211.	4.4	16
177	Highly conductive Al-doped tetra-needle-like ZnO whiskers prepared by a solid state method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 150, 203-207.	3.5	15
178	Mechanochemical synthesis of Ni(OH) <sub>2</sub> and the decomposition to NiO nanoparticles: Thermodynamic and optical spectra. <i>Journal of Alloys and Compounds</i> , 2014, 600, 204-209.	5.5	15
179	Effect of Intercalation Agents on Morphology of Exfoliated Kaolinite. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 249.	2.0	15
180	Intercalated kaolinite as an emerging platform for cancer therapy. <i>Science China Chemistry</i> , 2019, 62, 58-61.	8.2	14

#	ARTICLE	IF	CITATIONS
181	Physicochemical dispersion of chrysotile. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 301, 341-345.	4.7	13
182	Synthesis and characterization of zeolite 4A-type desiccant from kaolin. <i>American Mineralogist</i> , 2010, 95, 741-746.	1.9	13
183	Sb <sup>3+</sup> /SnO <sub>2</sub> nanoparticles onto kaolinite rods: assembling process and interfacial investigation. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 339-349.	0.8	13
184	Polypropylene filled with kaolinite-based conductive powders. <i>Applied Clay Science</i> , 2013, 83-84, 122-128.	5.2	13
185	Dual active luminescence centers from a single-solid composite SnO <sub>2</sub> :Eu <sup>3+</sup> /Al-MCM-41: defect chemistry mediated color tuning for white light emission. <i>RSC Advances</i> , 2013, 3, 13990.	3.6	13
186	Natural diatomite modified as novel hydrogen storage material. <i>Functional Materials Letters</i> , 2014, 07, 1450027.	1.2	13
187	Self-assembly of silica nanowires in a microemulsion system and their adsorption capacity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 526-533.	4.7	13
188	Lauric Acid Hybridizing Fly Ash Composite for Thermal Energy Storage. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 161.	2.0	13
189	Preparation of antimony-doped SnO <sub>2</sub> nanocrystallites. <i>Materials Research Bulletin</i> , 2002, 37, 2453-2458.	5.2	12
190	Surface status and reduction behavior of porous ceria (CeO <sub>2</sub> ) via amended EISA method. <i>Journal of Alloys and Compounds</i> , 2014, 606, 236-241.	5.5	12
191	Phase and optical properties of solvothermal prepared Sm <sub>2</sub> O <sub>3</sub> doped ZrO <sub>2</sub> nanoparticles: The effect of oxygen vacancy. <i>Journal of Alloys and Compounds</i> , 2016, 682, 654-662.	5.5	12
192	Surface-modified sepiolite fibers for reinforcing resin brake composites. <i>Materials Express</i> , 2017, 7, 104-112.	0.5	12
193	Functionally constructed mineral microspheres for efficient photothermal conversion and thermal energy storage. <i>Carbon</i> , 2022, 196, 365-377.	10.3	12
194	Simple Synthesis and Characterization of Nanoporous Materials from Talc. <i>Clays and Clay Minerals</i> , 2009, 57, 290-301.	1.3	11
195	Synthesis of Nanoporous Materials Al-MCM-41 from Natural Halloysite. <i>Nano</i> , 2015, 10, 1550005.	1.0	11
196	Selective Fabrication of Barium Carbonate Nanoparticles in the Lumen of Halloysite Nanotubes. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 296.	2.0	11
197	Fabrication of Si Nanoparticles@Carbon Fibers Composites from Natural Nanoclay as an Advanced Lithium-Ion Battery Flexible Anode. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 180.	2.0	11
198	Interfacial characteristics between mineral fillers and phenolic resin in friction materials. <i>Materials Express</i> , 2020, 10, 70-80.	0.5	11

#	ARTICLE	IF	CITATIONS
199	Electrospinning with a spindle-knot structure for effective PM2.5 capture. <i>Science China Materials</i> , 2021, 64, 1278-1290.	6.3	11
200	Manipulating the Conversion Kinetics of Polysulfides by Engineering Oxygen Band of Halloysite for Improved Li-S Batteries. <i>Small</i> , 2021, , 2105661.	10.0	11
201	Low wear braking material with high friction coefficient. <i>Tribology International</i> , 2022, 173, 107608.	5.9	11
202	Surface nanocrystallization modification of anhydrite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 393, 128-132.	4.7	10
203	A complex and de-complex strategy to ordered mesoporous Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> with comprehensive pilot scale performances. <i>Materials Chemistry and Physics</i> , 2014, 147, 1009-1015.	4.0	10
204	Single-source precursor synthesis of nitrogen-doped porous carbon for high-performance electrocatalytic ORR application. <i>Ceramics International</i> , 2019, 45, 8354-8361.	4.8	10
205	Nano-Bio interactions of clay nanotubes with colon cancer cells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124242.	4.7	10
206	Preparation and characterization of SnO <sub>2</sub> nanoparticles incorporated into talc porous materials (TPM). <i>Materials Letters</i> , 2007, 61, 3736-3739.	2.6	9
207	Energetics, Interlayer Molecular Structures, and Hydration Mechanisms of Dimethyl Sulfoxide (DMSO)–Kaolinite Nanoclay Guest–Host Interactions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9973-9981.	4.6	9
208	The relation between nanotube diameter, length and surface area and pore volume of multi-walled spiral halloysite nanotubes: A theoretical study. <i>Applied Clay Science</i> , 2021, 215, 106303.	5.2	9
209	Synthesis of homogeneous PVP-capped SnS <sub>2</sub> submicron particles via microwave irradiation. <i>Materials Letters</i> , 2006, 60, 3714-3717.	2.6	8
210	Enhanced reduction properties of mesostructured Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> solid solutions. <i>Materials Chemistry and Physics</i> , 2013, 140, 294-299.	4.0	8
211	Synthesis and magnetic property of SiO <sub>2</sub> coated Fe <sub>3</sub> O <sub>4</sub> /palygorskite. <i>Functional Materials Letters</i> , 2015, 08, 1550056.	1.2	8
212	Fabrication and Conductive Performance of Antimony-Doped Tin Oxide-Coated Halloysite Nanotubes. <i>Nano</i> , 2015, 10, 1550078.	1.0	8
213	Morphological evolution of hierarchical Bi <sub>2</sub> Se <sub>3</sub> /BiOBr nanostructures and enhanced activity for p-nitrophenol reduction by NaBH <sub>4</sub> . <i>CrystEngComm</i> , 2017, 19, 4824-4831.	2.6	8
214	Interfacial multi-reflection in barium ferrite nanosheets/ amorphous carbon nanotube composites for effective electromagnetic shielding applications. <i>Materials Chemistry and Physics</i> , 2021, 267, 124606.	4.0	8
215	Mechanochemical synthesis of In <sub>2</sub> O <sub>3</sub> /CuO nanocomposites. <i>Materials Chemistry and Physics</i> , 2004, 86, 330-332.	4.0	7
216	Sol–Gel Synthesis and Characterization of CeO <sub>x</sub> /SiO <sub>2</sub> /TiO <sub>2</sub> Thin Films. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1056-1061.	3.8	7

#	ARTICLE	IF	CITATIONS
217	$ZnFe$ Scientific World Journal, The, 2012, 2012, 1-8.		
218	Eu2O3-functionalized ZnO/palygorskite. RSC Advances, 2013, 3, 20385.	3.6	7
219	Charge-Dependent Regulation in DNA Adsorption on 2D Clay Minerals. Scientific Reports, 2019, 9, 6808.	3.3	7
220	Investigation of natural minerals for ulcerative colitis therapy. Applied Clay Science, 2020, 186, 105436.	5.2	7
221	Nitrogen-doped three-dimensional porous carbon anode derived from hard halloysite template for sodium-ion batteries. Applied Clay Science, 2021, 200, 105916.	5.2	7
222	Composite $K_2MoO_4 \cdot 13H_2O$ $\pm$ $MoO_3$ nanorods: sonochemical preparation and applications for advanced $Li^+$ / $Na^+$ pseudocapacitance. Journal of Materials Chemistry A, 2019, 7, 10954-10961.	10.3	6
223	Hybrid membrane with controllable surface microroughness by micro-nano structure processing for diluted PM2.5 capture. Environmental Pollution, 2020, 266, 115249.	7.5	6
224	Contrasting Photochemical Activity of Two Sub-layers for Natural 2D Nanoclay with an Asymmetric Layer Structure. ACS Applied Materials & Interfaces, 2021, 13, 59431-59439.	8.0	6
225	Phosphate Removal from Wastewater by Magnetic Amorphous Lanthanum Silicate Alginate Hydrogel Beads. Minerals (Basel, Switzerland), 2022, 12, 171.	2.0	6
226	Evolution of Black Talc upon Thermal Treatment. Minerals (Basel, Switzerland), 2022, 12, 155.	2.0	6
227	Wollastonite hybridizing stearic acid as thermal energy storage material. Functional Materials Letters, 2014, 07, 1440011.	1.2	5
228	Rapid synthesis of barium titanate microcubes using composite-hydroxides-mediated avenue. Materials Research Bulletin, 2014, 52, 108-111.	5.2	5
229	Novel Preparation and Characterization of Barium Strontium Titanate Microcubes. Journal of the American Ceramic Society, 2010, 93, 3342-3348.	3.8	2
230	Construction of Mesoporous $Ce_{0.5}Zr_{0.5}O_2$ from Different Gemini and Cetyltrimethylammonium Bromide Surfactants. Science of Advanced Materials, 2015, 7, 199-210.	0.7	2
231	MECHANOCHEMICAL SYNTHESIS OF CADMIUM-DOPED TIN OXIDE NANOPARTICLES. International Journal of Nanoscience, 2006, 05, 91-98.	0.7	1
232	SYNTHESIS OF NANOCRYSTALLINE ANATASE $TiO_2$ BY SOL-GEL METHOD. International Journal of Nanoscience, 2006, 05, 239-243.	0.7	1
233	Parallel Efficiency and Parametric Optimization in CASTEP. , 2011, , ,		1
234	MECHANOCHEMICAL SYNTHESIS OF $NiO$ NANOPARTICLES: INSIGHT INTO THE NATURE OF PREFERRED GROWTH ORIENTATION. Nano, 2014, 09, 1450046.	1.0	1

#	ARTICLE	IF	CITATIONS
235	A nanoclay-confined single atom catalyst: tuning uncoordinated N species for efficient water treatment. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9980-9988.	5.5	1
236	Thermal Performance and Interfacial Aspects of Kaolinite-Based Stearic Acid Composite in the Presence of Nitric Acid. <i>ChemistrySelect</i> , 2019, 4, 13109-13114.	1.5	0