

Xin Min

List of Publications by Year in descending order

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89
papers

4,112
citations

126858

33
h-index

118793

62
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all docs

90
docs citations

90
times ranked

3101
citing authors

#	ARTICLE	IF	CITATIONS
1	Potassium-ion batteries: outlook on present and future technologies. <i>Energy and Environmental Science</i> , 2021, 14, 2186-2243.	15.6	402
2	Enhanced thermal conductivity of PEG/diatomite shape-stabilized phase change materials with Ag nanoparticles for thermal energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8526-8536.	5.2	300
3	Honeycomb-like structured biological porous carbon encapsulating PEG: A shape-stable phase change material with enhanced thermal conductivity for thermal energy storage. <i>Energy and Buildings</i> , 2018, 158, 1049-1062.	3.1	275
4	Enhanced thermal properties of novel shape-stabilized PEG composite phase change materials with radial mesoporous silica sphere for thermal energy storage. <i>Scientific Reports</i> , 2015, 5, 12964.	1.6	198
5	Enhancement of thermal conductivity by the introduction of carbon nanotubes as a filler in paraffin/expanded perlite form-stable phase-change materials. <i>Energy and Buildings</i> , 2017, 149, 463-470.	3.1	151
6	Diatomite: A promising natural candidate as carrier material for low, middle and high temperature phase change material. <i>Energy Conversion and Management</i> , 2015, 98, 34-45.	4.4	150
7	A textile-based SnO ₂ ultra-flexible electrode for lithium-ion batteries. <i>Energy Storage Materials</i> , 2019, 16, 597-606.	9.5	150
8	Preparation and thermal properties of fatty acid/diatomite form-stable composite phase change material for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 273-279.	3.0	141
9	Energy Transfer from Sm ³⁺ to Eu ³⁺ in Red-Emitting Phosphor LaMgAl ₁₁ O ₁₉ :Sm ³⁺ , Eu ³⁺ for Solar Cells and Near-Ultraviolet White Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2014, 53, 6060-6065.	1.9	133
10	Synthesis and characterization of lauric acid/expanded vermiculite as form-stabilized thermal energy storage materials. <i>Energy and Buildings</i> , 2016, 116, 677-683.	3.1	108
11	Shape-stabilized composite phase change materials with high thermal conductivity based on stearic acid and modified expanded vermiculite. <i>Renewable Energy</i> , 2017, 112, 113-123.	4.3	104
12	Red-Shifted Emission in Y ₃ MgSiAl ₃ O ₁₂ :Ce ³⁺ Garnet Phosphor for Blue Light-Pumped White Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15659-15665.	1.5	93
13	Thermal conductivity enhancement of polyethylene glycol/expanded perlite with carbon layer for heat storage application. <i>Energy and Buildings</i> , 2016, 130, 113-121.	3.1	89
14	Preparation and thermal properties of shape-stabilized composite phase change materials based on polyethylene glycol and porous carbon prepared from potato. <i>RSC Advances</i> , 2016, 6, 15821-15830.	1.7	85
15	Preparation and characterization of the properties of polyethylene glycol @ Si ₃ N ₄ nanowires as phase-change materials. <i>Chemical Engineering Journal</i> , 2016, 301, 229-237.	6.6	79
16	Preparation and analysis of lightweight wall material with expanded graphite (EG)/paraffin composites for solar energy storage. <i>Applied Thermal Engineering</i> , 2017, 120, 107-114.	3.0	77
17	Novel pyrochlore-type La ₂ Zr ₂ O ₇ : Eu ³⁺ red phosphors: Synthesis, structural, luminescence properties and theoretical calculation. <i>Dyes and Pigments</i> , 2018, 157, 47-54.	2.0	77
18	Lauric-stearic acid eutectic mixture/carbonized biomass waste corn cob composite phase change materials: Preparation and thermal characterization. <i>Thermochimica Acta</i> , 2019, 674, 21-27.	1.2	76

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19	Form stable composite phase change materials from palmitic-lauric acid eutectic mixture and carbonized abandoned rice: Preparation, characterization, and thermal conductivity enhancement. <i>Energy and Buildings</i> , 2017, 154, 46-54.	3.1	75
20	Innovative Materials Science via Machine Learning. <i>Advanced Functional Materials</i> , 2022, 32, 2108044.	7.8	67
21	Polyethylene glycol/mesoporous calcium silicate shape-stabilized composite phase change material: Preparation, characterization, and adjustable thermal property. <i>Energy</i> , 2015, 82, 333-340.	4.5	66
22	Optimization of Von Mises Stress Distribution in Mesoporous $\text{Fe}_2\text{O}_3/\text{C}$ Hollow Bowls Synergistically Boosts Gravimetric/Volumetric Capacity and High-Rate Stability in Alkali-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1902822.	7.8	65
23	Hierarchically channel-guided porous wood-derived shape-stabilized thermal regulated materials with enhanced thermal conductivity for thermal energy storage. <i>Materials Research Express</i> , 2019, 6, 115515.	0.8	56
24	Tunable optical properties and stability of lead free all inorganic perovskites (Cs_2SnCl_6). <i>Journal of Materials Chemistry A</i> , 2018, 6, 2577-2584.	5.2	55
25	Metal-Based Nanocatalysts via a Universal Design on Cellular Structure. <i>Advanced Science</i> , 2020, 7, 1902051.	5.6	48
26	Preparation and performance of novel form-stable composite phase change materials based on polyethylene glycol/White Carbon Black assisted by super-ultrasound-assisted. <i>Thermochimica Acta</i> , 2016, 638, 35-43.	1.2	47
27	Luminescence Properties and Energy Transfer Behavior of a Novel and Color-Tunable $\text{LaMgAl}_{11}\text{O}_{19}:\text{Ti}^{3+}, \text{Dy}^{3+}$ Phosphor for White Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2015, 98, 788-794.	1.9	43
28	Synthesis and characterization of beeswax-tetradecanol-carbon fiber/expanded perlite form-stable composite phase change material for solar energy storage. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 180-188.	3.8	43
29	Polyacrylonitrile/polyethylene glycol phase-change material fibres prepared with hybrid polymer blends and nano-SiC fillers via centrifugal spinning. <i>Polymer</i> , 2020, 186, 122012.	1.8	38
30	Polyethylene glycol/modified carbon foam composites for efficient light-thermal conversion and storage. <i>Polymer</i> , 2021, 228, 123894.	1.8	38
31	Thermal behavior of composite phase change materials based on polyethylene glycol and expanded vermiculite with modified porous carbon layer. <i>Journal of Materials Science</i> , 2018, 53, 13067-13080.	1.7	37
32	Preparation and performance of novel polyvinylpyrrolidone/polyethylene glycol phase change materials composite fibers by centrifugal spinning. <i>Chemical Physics Letters</i> , 2018, 691, 314-318.	1.2	36
33	Paraffin/ $\text{Ti}_3\text{C}_2\text{T}_x$ Mxene@Gelatin Aerogels Composite Phase-Change Materials with High Solar-Thermal Conversion Efficiency and Enhanced Thermal Conductivity for Thermal Energy Storage. <i>Energy & Fuels</i> , 2021, 35, 2805-2814.	2.5	36
34	A novel 2D graphene oxide modified AgVO_3 nanorods: Design, fabrication, and enhanced visible-light photocatalytic performance. <i>Journal of Advanced Ceramics</i> , 2022, 11, 308-320.	8.9	36
35	Thermal energy storage properties and thermal reliability of PEG/bone char composite as a form-stable phase change material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 1753-1761.	2.0	33
36	Enhanced thermal conductivity of composite phase change materials based on carbon modified expanded perlite. <i>Materials Chemistry and Physics</i> , 2021, 261, 124226.	2.0	33

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37	Synthesis and photoluminescence properties of novel thermally robust Na ₃ GdP ₂ O ₈ : Re ³⁺ (Re ³⁺ =Sm, Dy) phosphors. <i>Chemical Physics Letters</i> , 2018, 710, 84-89.	1.2	32
38	Simple routes from natural graphite to graphite foams: Preparation, structure and properties. <i>Carbon</i> , 2020, 159, 527-541.	5.4	31
39	Synthesis and optical properties of Pr ³⁺ -doped LaMgAl ₁₁ O ₁₉ —A novel blue converting yellow phosphor for white light emitting diodes. <i>Ceramics International</i> , 2015, 41, 4238-4242.	2.3	29
40	A high quantum yield red phosphor NaGdSiO ₄ : Eu ³⁺ with intense emissions from the 5D ₀ →7F _{1,2} transition. <i>Ceramics International</i> , 2022, 48, 23213-23223.	2.3	26
41	Preparation and properties of polystyrene/silica fibres flexible thermal insulation materials by centrifugal spinning. <i>Polymer</i> , 2019, 185, 121964.	1.8	25
42	Preparation of Al ₂ O ₃ —SiC composite powder from kyanite tailings via carbothermal reduction process. <i>Advances in Applied Ceramics</i> , 2018, 117, 9-15.	0.6	20
43	Thermal conductivity enhanced polyethylene glycol/expanded perlite shape-stabilized composite phase change materials with Cu powder for thermal energy storage. <i>Materials Research Express</i> , 2018, 5, 095503.	0.8	20
44	Preparation, structure, luminescence properties of terbium doped perovskite-like structure green-emitting phosphors SrLaAlO ₄ :Tb ³⁺ . <i>Optical Materials</i> , 2019, 95, 109191.	1.7	19
45	The Influence of Platelet-Like LaMgAl ₁₁ O ₁₉ on the Toughness of 3Åmol% Ytria Partially Stabilized Zirconia Ceramic. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 176-183.	1.1	18
46	Efficient Adsorption of the Cd(II) and As(V) Using Novel Adsorbent Ferrihydrite/Manganese Dioxide Composites. <i>ACS Omega</i> , 2019, 4, 18627-18636.	1.6	18
47	Synthesis and luminescence properties of nitrided lanthanum magnesium hexaluminate LaMgAl ₁₁ O ₁₉ phosphors. <i>Ceramics International</i> , 2014, 40, 4535-4539.	2.3	17
48	Preparation and properties of polyacrylonitrile/polyethylene glycol composite fibers phase change materials by centrifugal spinning. <i>Materials Research Express</i> , 2019, 6, 095502.	0.8	16
49	Form-stable and tough paraffin-Al ₂ O ₃ /high density polyethylene composites as environment-friendly thermal energy storage materials: preparation, characterization and analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 2089-2099.	2.0	16
50	Construction of an Ag ₃ PO ₄ morphological homojunction for enhanced photocatalytic performance and mechanism investigation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 546, 99-106.	2.3	15
51	Molten salt synthesis, growth mechanism, and photoluminescence of rod chlorapatite microcrystallites. <i>CrystEngComm</i> , 2019, 21, 1809-1817.	1.3	15
52	Growth mechanism and synchronous synthesis of 1D β -sialon nanostructures and β -sialon-Si ₃ N ₄ composite powders by a process of reduction nitridation. <i>Materials Research Express</i> , 2019, 6, 065054.	0.8	14
53	Thermally Conductive and Shape-Stabilized Polyethylene Glycol/Carbon Foam Phase-Change Composites for Thermal Energy Storage. <i>ChemistrySelect</i> , 2020, 5, 3217-3224.	0.7	14
54	Preparation and Characterization of Flexible Smart Glycol/Polyvinylpyrrolidone/Nano-Al ₂ O ₃ Phase Change Fibers. <i>Energy & Fuels</i> , 2021, 35, 877-882.	2.5	14

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55	Mechanical Properties and Solid Particle Erosion Behavior of $\text{LaMgAl}_{11}\text{O}_{19}$ - Al_2O_3 Ceramic at Room and Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2138-2146.	1.9	13
56	Microstructure and electrochemical properties of polyacrylonitrile-based carbon micro- and nanofibers fabricated by centrifugal spinning. <i>Chemical Physics Letters</i> , 2017, 684, 14-19.	1.2	13
57	Synthesis of Sialon-SiC Composites from Kyanite Tailings by Carbothermal Reduction Nitridation. <i>Jom</i> , 2015, 67, 1379-1384.	0.9	12
58	In situ synthesis of adsorptive $\text{Bi}_2\text{O}_3/\text{BiOBr}$ photocatalyst with enhanced degradation efficiency. <i>Journal of Materials Research</i> , 2019, 34, 3450-3461.	1.2	12
59	New Efficient Visible-Light-Driven Photocatalyst of Chitin-Modified Titanium Dioxide/Carbon Fiber Composites for Wastewater. <i>Scientific Reports</i> , 2019, 9, 16321.	1.6	11
60	Preparation and performance of shape-stable phase change materials based on carbonized-abandoned orange peel and paraffin. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 289-298.	1.0	11
61	A novel nano-porous aluminum substrate with anodizing treatment to encapsulate 1-tetrapropanol as composite phase change materials for thermal energy utilization. <i>Chemical Engineering Journal</i> , 2021, 404, 124588.	6.6	11
62	Multiple Energy Transfer in Luminescence-Tunable Single-Phased Phosphor $\text{NaGdTiO}_4: \text{Tm}^{3+}, \text{Dy}^{3+}, \text{Sm}^{3+}$. <i>Nanomaterials</i> , 2020, 10, 1249.	1.9	10
63	Growth, structure, and luminescence properties of novel silica nanowires and interconnected nanorings. <i>Scientific Reports</i> , 2017, 7, 10482.	1.6	9
64	Paraffin/expanded graphite phase change composites with enhanced thermal conductivity prepared by implanted SiC nanowires with chemical vapor deposition method. <i>Materials Research Express</i> , 2018, 5, 025503.	0.8	9
65	Yellow Emission Obtained by Combination of Broadband Emission and Multi-Peak Emission in Garnet Structure $\text{Na}_2\text{YMg}_2\text{V}_3\text{O}_{12}: \text{Dy}^{3+}$ Phosphor. <i>Molecules</i> , 2020, 25, 542.	1.7	9
66	Attapulgite: a promising natural mineral as carrier material for fatty acids phase change material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 7203-7212.	2.0	9
67	Preparation and characterization of form-stable tetradecanol-palmitic acid expanded perlite composites containing carbon fiber for thermal energy storage. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1217-1225.	2.0	8
68	A new $\text{Ag}/\text{Bi}_7\text{Ta}_3\text{O}_{18}$ plasmonic photocatalyst with a visible-light-driven photocatalytic activity. <i>Journal of Materials Research</i> , 2017, 32, 3650-3659.	1.2	7
69	Synthesis and Luminescence Properties of a Novel Green-Yellow-Emitting Phosphor $\text{BiOCl}:\text{Pr}^{3+}$ for Blue-Light-Based w-LEDs. <i>Molecules</i> , 2019, 24, 1296.	1.7	7
70	Nickel Quantum Dots Anchored in Biomass-Derived Nitrogen-Doped Carbon as Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	7
71	Polydopamine Nanocluster Embedded Nanofibrous Membrane via Blow Spinning for Separation of Oil/Water Emulsions. <i>Molecules</i> , 2021, 26, 3258.	1.7	6
72	Dependence of crystal structure on mechanical and thermophysical properties of magnetoplumbite-type $\text{LnMgAl}_{11}\text{O}_{19}$ ceramics with substitution of Ln^{3+} ions. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1596-1605.	1.1	5

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73	An Efficient Environmentally Friendly Composite Material Based on Carbonized Biological Cellulose/Paraffin: Thermal and Sustainable Properties Analysis. <i>ChemistrySelect</i> , 2020, 5, 12051-12056.	0.7	5
74	Novel humic acid-based carbon materials: adsorption thermodynamics and kinetics for cadmium(II) ions. <i>Colloid and Polymer Science</i> , 2018, 296, 537-546.	1.0	4
75	Preparation of carbon-coated Fe ₃ O ₄ porous particles and their adsorption properties of iron (III) ion. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 306-317.	1.0	4
76	Assembly of SiC Nanowires film and humidity sensing performance. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1193-1199.	1.1	4
77	Preparation and Characterization of Composite Phase Change Materials Based on Lauric/Myristic Acid and Expanded Vermiculite with Carbon Layer. <i>ChemistrySelect</i> , 2021, 6, 3884-3890.	0.7	4
78	Fabrication of morphology-controlled MgO nanowhiskers and nanocrosses by magnesiothermic synthesis in vapor phase at 550 °C. <i>RSC Advances</i> , 2015, 5, 62747-62751.	1.7	3
79	Kinetics and equilibrium studies of the adsorption of methylene blue on Euryale ferox shell-based activated carbon. <i>Micro and Nano Letters</i> , 2018, 13, 552-557.	0.6	3
80	Research on slag resistance of ZrN-SiAlON-SiC composite refractory in different atmospheres. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 69-76.	1.1	3
81	Study of erosion wear behavior of MgO stabilized ZrO ₂ ceramics due to solid particles impact at elevated temperature. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 933-936.	0.5	2
82	Influence of LaMgAl ₁₁ O ₁₉ On Solid Particle Impact Erosion Wear Behavior of 3YSZ Ceramic at Elevated Temperatures. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 805-810.	1.1	2
83	Carbothermal/aluminothermic reduction nitridation synthesis of ZrN-SiAlON refractory composites from zircon and bauxite: a comparative study of the reduction effect of reducers. <i>Advances in Applied Ceramics</i> , 2017, 116, 151-157.	0.6	2
84	Processing and electrochemical properties of CNT reinforced carbon nanofibers prepared by pressurized gyration. <i>Journal of Materials Research</i> , 2018, 33, 4251-4260.	1.2	2
85	Facile synthesis of Si ₃ N ₄ nanoneedles and their photoluminescence properties. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2373-2379.	1.1	2
86	Metal-Based Nanocatalysts: Metal-Based Nanocatalysts via a Universal Design on Cellular Structure (<i>Adv. Sci.</i> 3/2020). <i>Advanced Science</i> , 2020, 7, 2070013.	5.6	2
87	N-Si doped carbon-embedded TiO ₂ composite fibers: a new photocatalysts with high yields by centrifugal spinning. <i>Materials Research Express</i> , 2019, 6, 1150h1.	0.8	1
88	Hierarchical fibrous honeycomb ceramics with high load capability and low light-off temperature for the next-generation auto emissions standards. <i>Chemistry - A European Journal</i> , 2022, , .	1.7	0
89	Effects of Preparation and Activation Manner on Surface Area of Hierarchical Porous Carbons Derived from Nut (Euryale ferox) Shell. <i>ChemistrySelect</i> , 2022, 7, .	0.7	0