

# Xin Min

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9073721/publications.pdf>

Version: 2024-02-01

89  
papers

4,112  
citations

126858

33  
h-index

118793

62  
g-index

90  
all docs

90  
docs citations

90  
times ranked

3101  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Innovative Materials Science via Machine Learning. <i>Advanced Functional Materials</i> , 2022, 32, 2108044.	7.8	67
3	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
4	A novel 2D graphene oxide modified $\pm$ -AgVO <sub>3</sub> nanorods: Design, fabrication, and enhanced visible-light photocatalytic performance. <i>Journal of Advanced Ceramics</i> , 2022, 11, 308-320.	8.9	36
5	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
6	Effects of Preparation and Activation Manner on Surface Area of Hierarchical Porous Carbons Derived from Nut ( <i>Euryale ferox</i> ) Shell. <i>ChemistrySelect</i> , 2022, 7, .	0.7	0
7	A high quantum yield red phosphor NaCdSiO <sub>4</sub> : Eu <sup>3+</sup> with intense emissions from the 5D <sub>0</sub> →7F <sub>1,2</sub> transition. <i>Ceramics International</i> , 2022, 48, 23213-23223.	2.3	26
8	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
9	Preparation and Characterization of Flexible Smart Glycol/Polyvinylpyrrolidone/Nano-Al <sub>2</sub> O <sub>3</sub> Phase Change Fibers. <i>Energy &amp; Fuels</i> , 2021, 35, 877-882.	2.5	14
10	Form-stable and tough paraffin-Al <sub>2</sub> O <sub>3</sub> /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
11	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
12	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
13	Polydopamine Nanocluster Embedded Nanofibrous Membrane via Blow Spinning for Separation of Oil/Water Emulsions. <i>Molecules</i> , 2021, 26, 3258.	1.7	6
14	Polyethylene glycol/modified carbon foam composites for efficient light-thermal conversion and storage. <i>Polymer</i> , 2021, 228, 123894.	1.8	38
15	Potassium-ion batteries: outlook on present and future technologies. <i>Energy and Environmental Science</i> , 2021, 14, 2186-2243.	15.6	402
16	Paraffin/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Mxene@Gelatin Aerogels Composite Phase-Change Materials with High Solar-Thermal Conversion Efficiency and Enhanced Thermal Conductivity for Thermal Energy Storage. <i>Energy &amp; Fuels</i> , 2021, 35, 2805-2814.	2.5	36
17	Simple routes from natural graphite to graphite foams: Preparation, structure and properties. <i>Carbon</i> , 2020, 159, 527-541.	5.4	31
18	Metal-Based Nanocatalysts via a Universal Design on Cellular Structure. <i>Advanced Science</i> , 2020, 7, 1902051.	5.6	48

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Multiple Energy Transfer in Luminescence-Tunable Single-Phased Phosphor NaGdTiO <sub>4</sub> : Tm <sup>3+</sup> , Dy <sup>3+</sup> , Sm <sup>3+</sup> . <i>Nanomaterials</i> , 2020, 10, 1249.	1.9	10
23	Yellow Emission Obtained by Combination of Broadband Emission and Multi-Peak Emission in Garnet Structure Na <sub>2</sub> YMg <sub>2</sub> V <sub>3</sub> O <sub>12</sub> : Dy <sup>3+</sup> Phosphor. <i>Molecules</i> , 2020, 25, 542.	1.7	9
24	Metal-Based Nanocatalysts: Metal-Based Nanocatalysts via a Universal Design on Cellular Structure (Adv. Sci. 3/2020). <i>Advanced Science</i> , 2020, 7, 2070013.	5.6	2
25	A textile-based SnO <sub>2</sub> ultra-flexible electrode for lithium-ion batteries. <i>Energy Storage Materials</i> , 2019, 16, 597-606.	9.5	150
26	N-Si doped carbon-embedded TiO <sub>2</sub> composite fibers: a new photocatalysts with high yields by centrifugal spinning. <i>Materials Research Express</i> , 2019, 6, 1150h1.	0.8	1
27	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
28	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
29	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
30	Preparation and properties of polystyrene/silica fibres flexible thermal insulation materials by centrifugal spinning. <i>Polymer</i> , 2019, 185, 121964.	1.8	25
31	In situ synthesis of adsorptive Bi <sub>2</sub> O <sub>3</sub> /BiOBr photocatalyst with enhanced degradation efficiency. <i>Journal of Materials Research</i> , 2019, 34, 3450-3461.	1.2	12
32	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
33	Optimization of Von Mises Stress Distribution in Mesoporous Fe <sub>2</sub> O <sub>3</sub> /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
34	Preparation, structure, luminescence properties of terbium doped perovskite-like structure green-emitting phosphors SrLaAlO <sub>4</sub> :Tb <sup>3+</sup> . <i>Optical Materials</i> , 2019, 95, 109191.	1.7	19
35	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
36	Facile synthesis of Si <sub>3</sub> N <sub>4</sub> nanoneedles and their photoluminescence properties. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2373-2379.	1.1	2

#	ARTICLE	IF	CITATIONS
37	Growth mechanism and synchronous synthesis of 1D $\text{TiO}_2$ -sialon nanostructures and $\text{TiO}_2$ -sialon- $\text{Si}_3\text{N}_4$ composite powders by a process of reduction nitridation. <i>Materials Research Express</i> , 2019, 6, 065054.	0.8	14
38	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
39	Dependence of crystal structure on mechanical and thermophysical properties of magnetoplumbite-type $\text{LnMgAl}_{11}\text{O}_{19}$ ceramics with substitution of $\text{Ln}^{3+}$ ions. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1596-1605.	1.1	5
40	Molten salt synthesis, growth mechanism, and photoluminescence of rod chlorapatite microcrystallites. <i>CrystEngComm</i> , 2019, 21, 1809-1817.	1.3	15
41	Research on slag-resistance of $\text{ZrO}_2\text{-SiAlON-SiC}$ composite refractory in different atmospheres. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 69-76.	1.1	3
42	Assembly of $\text{TiO}_2$ Nanowires film and humidity sensing performance. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1193-1199.	1.1	4
43	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
44	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
45	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
46	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
47	Paraffin/expanded graphite phase change composites with enhanced thermal conductivity prepared by implanted $\text{TiO}_2$ -SiC nanowires with chemical vapor deposition method. <i>Materials Research Express</i> , 2018, 5, 025503.	0.8	9
48	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
49	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
50	Tunable optical properties and stability of lead free all inorganic perovskites ( $\text{Cs}_2\text{Sn}_x\text{Cl}_{6-x}$ ). <i>Journal of Materials Chemistry A</i> , 2018, 6, 2577-2584.	5.2	55
51	Novel pyrochlore-type $\text{La}_2\text{Zr}_2\text{O}_7$ : $\text{Eu}^{3+}$ red phosphors: Synthesis, structural, luminescence properties and theoretical calculation. <i>Dyes and Pigments</i> , 2018, 157, 47-54.	2.0	77
52	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
53	Preparation of carbon-coated $\text{Fe}_3\text{O}_4$ 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
54	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

#	ARTICLE	IF	CITATIONS
55	Preparation of Al <sub>2</sub> O <sub>3</sub> -SiC composite powder from kyanite tailings via carbothermal reduction process. <i>Advances in Applied Ceramics</i> , 2018, 117, 9-15.	0.6	20
56	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
57	Synthesis and photoluminescence properties of novel thermally robust Na <sub>3</sub> GdP <sub>2</sub> O <sub>8</sub> : Re <sup>3+</sup> (Re <sup>3+</sup> =Sm, Dy) phosphors. <i>Chemical Physics Letters</i> , 2018, 710, 84-89.	1.2	32
58	Kinetics and equilibrium studies of the adsorption of methylene blue on <i>Euryale ferox</i> shell-based activated carbon. <i>Micro and Nano Letters</i> , 2018, 13, 552-557.	0.6	3
59	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
60	Construction of an Ag <sub>3</sub> PO <sub>4</sub> 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
61	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
62	Red-Shifted Emission in Y <sub>3</sub> MgSiAl <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> Garnet Phosphor for Blue Light-Pumped White Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15659-15665.	1.5	93
63	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
64	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
65	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
66	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
67	Growth, structure, and luminescence properties of novel silica nanowires and interconnected nanorings. <i>Scientific Reports</i> , 2017, 7, 10482.	1.6	9
68	A new Ag/Bi <sub>7</sub> Ta <sub>3</sub> O <sub>18</sub> plasmonic photocatalyst with a visible-light-driven photocatalytic activity. <i>Journal of Materials Research</i> , 2017, 32, 3650-3659.	1.2	7
69	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
70	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
71	Preparation and characterization of the properties of polyethylene glycol @ Si <sub>3</sub> N <sub>4</sub> nanowires as phase-change materials. <i>Chemical Engineering Journal</i> , 2016, 301, 229-237.	6.6	79
72	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

#	ARTICLE	IF	CITATIONS
73	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
74	Mechanical Properties and Solid Particle Erosion Behavior of $\text{LaMgAl}_{11}\text{O}_{19}$ - $\text{Al}_2\text{O}_3$ Ceramic at Room and Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2138-2146.	1.9	13
75	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
76	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
77	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
78	Study of erosion wear behavior of MgO stabilized $\text{ZrO}_2$ 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
79	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
80	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
81	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
82	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
83	The Influence of Platelet-Like $\text{LaMgAl}_{11}\text{O}_{19}$ on the Toughness of 3 mol% Ytria Partially Stabilized Zirconia Ceramic. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 176-183.	1.1	18
84	Synthesis of Sialon-SiC Composites from Kyanite Tailings by Carbothermal Reduction Nitridation. <i>Jom</i> , 2015, 67, 1379-1384.	0.9	12
85	Synthesis and optical properties of Pr <sup>3+</sup> -doped $\text{LaMgAl}_{11}\text{O}_{19}$ : A novel blue converting yellow phosphor for white light emitting diodes. <i>Ceramics International</i> , 2015, 41, 4238-4242.	2.3	29
86	Luminescence Properties and Energy Transfer Behavior of a Novel and Color-Tunable $\text{LaMgAl}_{11}\text{O}_{19}$ :Tm <sup>3+</sup> , Dy <sup>3+</sup> Phosphor for White Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2015, 98, 788-794.	1.9	43
87	Influence of $\text{LaMgAl}_{11}\text{O}_{19}$ On Solid Particle Impact Erosion Wear Behavior of 3Y-SZ Ceramic at Elevated Temperatures. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 805-810.	1.1	2
88	Energy Transfer from Sm <sup>3+</sup> to Eu <sup>3+</sup> in Red-Emitting Phosphor $\text{LaMgAl}_{11}\text{O}_{19}$ :Sm <sup>3+</sup> , Eu <sup>3+</sup> for Solar Cells and Near-Ultraviolet White Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2014, 53, 6060-6065.	1.9	133
89	Synthesis and luminescence properties of nitrated lanthanum magnesium hexaluminate $\text{LaMgAl}_{11}\text{O}_{19}$ phosphors. <i>Ceramics International</i> , 2014, 40, 4535-4539.	2.3	17