

Xiao Chen

List of Publications by Year in descending order

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51
papers

3,158
citations

218677

26
h-index

182427

51
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all docs

51
docs citations

51
times ranked

1755
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetically accelerated thermal energy storage within Fe ₃ O ₄ -anchored MXene-based phase change materials. Aggregate, 2023, 4, .	9.9	11
2	Engineering attractive interaction in ZIF-based phase change materials for boosting electro- and photo- driven thermal energy storage. Chemical Engineering Journal, 2022, 430, 133007.	12.7	27
3	Top-down synthetic strategies toward single atoms on the rise. Matter, 2022, 5, 788-807.	10.0	28
4	The marriage of two-dimensional materials and phase change materials for energy storage, conversion and applications. EnergyChem, 2022, 4, 100071.	19.1	42
5	Flexible engineering of advanced phase change materials. IScience, 2022, 25, 104226.	4.1	21
6	Advanced pressure-upgraded dynamic phase change materials. Joule, 2022, 6, 953-955.	24.0	10
7	Metal-organic framework derived magnetic phase change nanocage for fast-charging solar-thermal energy conversion. Nano Energy, 2022, 99, 107383.	16.0	26
8	Magnetically tightened multifunctional phase change materials. Matter, 2022, 5, 1639-1642.	10.0	2
9	Photo- and magneto-responsive highly graphitized carbon based phase change composites for energy conversion and storage. Materials Today Nano, 2022, 19, 100234.	4.6	10
10	Modulation of the charge transfer behavior of Ni(II)-doped NH ₂ -MIL-125(Ti): Regulation of Ni ions content and enhanced photocatalytic CO ₂ reduction performance. Chemical Engineering Journal, 2021, 406, 126886.	12.7	83
11	Cobalt-embedded few-layered carbon nanosheets toward enhanced hydrogen evolution: Rational design and insight into structure-performance correlation. Journal of Energy Chemistry, 2021, 58, 156-161.	12.9	1
12	Advanced multifunctional composite phase change materials based on photo-responsive materials. Nano Energy, 2021, 80, 105454.	16.0	129
13	Understanding molecular motion mechanism of phase change materials in mesoporous MCM-41. Microporous and Mesoporous Materials, 2021, 312, 110741.	4.4	6
14	Carbon-based Composite Phase Change Materials for Thermal Energy Storage, Transfer, and Conversion. Advanced Science, 2021, 8, 2001274.	11.2	162
15	Construction of dual ligand Ti-based MOFs with enhanced photocatalytic CO ₂ reduction performance. Journal of CO ₂ Utilization, 2021, 48, 101528.	6.8	39
16	Encapsulation of lauric acid in reduced graphene-N-doped porous carbon supporting scaffold for multi-functional phase change composites. Renewable Energy, 2021, 170, 661-668.	8.9	18
17	Different dimensional nanoadditives for thermal conductivity enhancement of phase change materials: Fundamentals and applications. Nano Energy, 2021, 85, 105948.	16.0	164
18	Molecular insights into the interaction mechanism between C18 phase change materials and methyl-modified carbon nanotubes. Ceramics International, 2021, 47, 23564-23570.	4.8	8

#	ARTICLE	IF	CITATIONS
19	Targeted synthesis of covalently linked Ni-MOFs nanosheets/graphene for oxygen evolution reaction by computational screening of anchoring primers. <i>Nano Energy</i> , 2021, 79, 105418.	16.0	25
20	Advanced 3D-printed phase change materials. <i>Matter</i> , 2021, 4, 3374-3376.	10.0	9
21	Atomically dispersed ruthenium sites on whisker-like secondary microstructure of porous carbon host toward highly efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3203-3210.	10.3	20
22	Carbon nanotube bundles assembled flexible hierarchical framework based phase change material composites for thermal energy harvesting and thermotherapy. <i>Energy Storage Materials</i> , 2020, 26, 129-137.	18.0	124
23	Self-assembly engineering toward large-area defect-rich TiO ₂ (B) nanosheets-based free-standing films for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2020, 448, 227458.	7.8	18
24	In-situ derived graphene from solid sodium acetate for enhanced photothermal conversion, thermal conductivity, and energy storage capacity of phase change materials. <i>Solar Energy Materials and Solar Cells</i> , 2020, 205, 110269.	6.2	28
25	Metal-Organic Framework-based Phase Change Materials for Thermal Energy Storage. <i>Cell Reports Physical Science</i> , 2020, 1, 100218.	5.6	33
26	Toward Tailoring Chemistry of Silica-Based Phase Change Materials for Thermal Energy Storage. <i>IScience</i> , 2020, 23, 101606.	4.1	28
27	Optimization strategies of composite phase change materials for thermal energy storage, transfer, conversion and utilization. <i>Energy and Environmental Science</i> , 2020, 13, 4498-4535.	30.8	181
28	3D Hydrangea Macrophylla-like Nickel-Vanadium Metal-Organic Frameworks Formed by Self-Assembly of Ultrathin 2D Nanosheets for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48495-48510.	8.0	57
29	Self-templating synthesis of hollow NiFe hydroxide nanospheres for efficient oxygen evolution reaction. <i>Electrochimica Acta</i> , 2020, 357, 136869.	5.2	7
30	Three-dimensional rGO@sponge framework/paraffin wax composite shape-stabilized phase change materials for solar-thermal energy conversion and storage. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110600.	6.2	71
31	Smart Utilization of Multifunctional Metal Oxides in Phase Change Materials. <i>Matter</i> , 2020, 3, 708-741.	10.0	87
32	In situ one-step construction of monolithic silica aerogel-based composite phase change materials for thermal protection. <i>Composites Part B: Engineering</i> , 2020, 195, 108072.	12.0	76
33	In-situ Self-transformation Synthesis of N-doped Carbon Coating Paragenetic Anatase/Rutile Heterostructure with Enhanced Photocatalytic CO ₂ Reduction Activity. <i>ChemCatChem</i> , 2020, 12, 3274-3284.	3.7	14
34	Phase Change Materials for Electro-Thermal Conversion and Storage: From Fundamental Understanding to Engineering Design. <i>IScience</i> , 2020, 23, 101208.	4.1	55
35	Hierarchical nitrogen-doped porous carbon incorporating cobalt nanocrystal sites for nitrophenol reduction. <i>Chemical Engineering Science</i> , 2020, 217, 115525.	3.8	16
36	Network Structural CNTs Penetrate Porous Carbon Support for Phase-Change Materials with Enhanced Electro-Thermal Performance. <i>Advanced Electronic Materials</i> , 2020, 6, 1901428.	5.1	26

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37	Flexible monolithic phase change material based on carbon nanotubes/chitosan/poly(vinyl alcohol). <i>Chemical Engineering Journal</i> , 2020, 397, 125330.	12.7	92
38	Smart integration of carbon quantum dots in metal-organic frameworks for fluorescence-functionalized phase change materials. <i>Energy Storage Materials</i> , 2019, 18, 349-355.	18.0	105
39	3D Self-Supported Porous NiO@NiMoO ₄ Core-Shell Nanosheets for Highly Efficient Oxygen Evolution Reaction. <i>Inorganic Chemistry</i> , 2019, 58, 6758-6764.	4.0	31
40	Nanoconfinement effects of N-doped hierarchical carbon on thermal behaviors of organic phase change materials. <i>Energy Storage Materials</i> , 2019, 18, 280-288.	18.0	86
41	Shape-stabilized phase change materials based on porous supports for thermal energy storage applications. <i>Chemical Engineering Journal</i> , 2019, 356, 641-661.	12.7	459
42	Two-phase interface-facilitated synthesis of graphene-like carbon nanosheets and their interfacial assembly behaviors. <i>Chemical Physics</i> , 2019, 516, 132-138.	1.9	6
43	Decorating cobalt phosphide and rhodium on reduced graphene oxide for high-efficiency hydrogen evolution reaction. <i>Journal of Energy Chemistry</i> , 2019, 34, 72-79.	12.9	25
44	One-pot self-assembly of sisal-like TiO ₂ on graphene-like carbon sheets via a novel two-phase interface-facilitated route. <i>Journal of Alloys and Compounds</i> , 2019, 776, 763-772.	5.5	1
45	Thermal-induced blister cracking behavior of annealed sandwich-structured TiN/CrAlN films. <i>Ceramics International</i> , 2018, 44, 5874-5879.	4.8	4
46	Highly graphitized 3D network carbon for shape-stabilized composite PCMs with superior thermal energy harvesting. <i>Nano Energy</i> , 2018, 49, 86-94.	16.0	200
47	Thermal failure mechanism of multilayer brittle TiN/CrAlN films. <i>Ceramics International</i> , 2018, 44, 8138-8144.	4.8	21
48	Core-sheath structural carbon materials for integrated enhancement of thermal conductivity and capacity. <i>Applied Energy</i> , 2018, 217, 369-376.	10.1	91
49	Nanoconfinement effects on thermal properties of nanoporous shape-stabilized composite PCMs: A review. <i>Nano Energy</i> , 2018, 53, 769-797.	16.0	260
50	Hierarchical 3D Reduced Graphene Porous-Carbon-Based PCMs for Superior Thermal Energy Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32093-32101.	8.0	85
51	Effects of substrate bias voltage on mechanical properties and tribological behaviors of RF sputtered multilayer TiN/CrAlN films. <i>Journal of Alloys and Compounds</i> , 2016, 665, 210-217.	5.5	30