

Yulong Ding

List of Publications by Year in descending order

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Version: 2024-02-01

475
papers

29,886
citations

6254

80
h-index

6654

156
g-index

489
all docs

489
docs citations

489
times ranked

20234
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient solar-driven CO ₂ -to-fuel conversion via Ni/MgAlO ₃ @SiO ₂ nanocomposites at low temperature. <i>Fundamental Research</i> , 2024, 4, 131-139.	3.3	2
2	The Potential Application of Hot Isostatic Pressing for Magnesium Alloys to Reduce Shrinkage Porosity. <i>International Journal of Metalcasting</i> , 2023, 17, 447-454.	1.9	1
3	Cryogenic Energy Storage. , 2022, , 94-107.		2
4	Cryogenic thermoelectric generation using cold energy from a decoupled liquid air energy storage system for decentralised energy networks. <i>Applied Energy</i> , 2022, 305, 117749.	10.1	17
5	Collecting behaviors of high internal phase (HIP) emulsion in flotation of ultrafine high-ash content coal slime. <i>International Journal of Coal Preparation and Utilization</i> , 2022, 42, 2635-2655.	2.1	11
6	On the anticorrosion mechanism of molten salts based nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2022, 234, 111424.	6.2	7
7	Molecular dynamics simulation on thermal enhancement for carbon nano tubes (CNTs) based phase change materials (PCMs). <i>International Journal of Heat and Mass Transfer</i> , 2022, 182, 122017.	4.8	37
8	Synergetic enhancement of heat storage density and heat transport ability of phase change materials inlaid in 3D hierarchical ceramics. <i>Applied Energy</i> , 2022, 306, 117995.	10.1	48
9	Highly efficient solar-driven CO ₂ -to-fuel conversion assisted by CH ₄ over NiCo-ZIF derived catalysts. <i>Fuel</i> , 2022, 310, 122441.	6.4	9
10	Discharging behavior of a shell-and-tube based thermochemical reactor for thermal energy storage: Modeling and experimental validation. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122160.	4.8	14
11	Thickening and gelling agents for formulation of thermal energy storage materials – A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 155, 111906.	16.4	13
12	A novel liquid air energy storage system using a combination of sensible and latent heat storage. <i>Applied Thermal Engineering</i> , 2022, 203, 117890.	6.0	20
13	Exploring failure mode and enhancement mechanism of doped rare-earth elements iron-based/alumina-ceramic interface. <i>Ceramics International</i> , 2022, 48, 7827-7835.	4.8	3
14	Thermodynamic Analysis of Liquid Air Energy Storage (LAES) System. , 2022, , 232-252.		4
15	The optimal design and operation of a hybrid renewable micro-grid with the decoupled liquid air energy storage. <i>Journal of Cleaner Production</i> , 2022, 334, 130189.	9.3	10
16	Cooling technologies for data centres and telecommunication base stations – A comprehensive review. <i>Journal of Cleaner Production</i> , 2022, 334, 130280.	9.3	34
17	Latent heat of molten salt transport across graphite induced anisotropic interface. <i>Solar Energy Materials and Solar Cells</i> , 2022, 236, 111496.	6.2	4
18	Loofah-derived eco-friendly SiC ceramics for high-performance sunlight capture, thermal transport, and energy storage. <i>Energy Storage Materials</i> , 2022, 45, 786-795.	18.0	56

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19	Blackened calcium-based composite particles and their apparent kinetics features for solar thermochemical energy storage. <i>AIChE Journal</i> , 2022, 68, .	3.6	5
20	Microstructure and mechanical properties of cold sintered porous alumina ceramics. <i>Ceramics International</i> , 2022, 48, 13531-13540.	4.8	14
21	Liquid air energy storage. , 2022, , 191-205.		5
22	Influence of Vacancy Defects of the Calcium Oxide Surface on the Nonequilibrium Phase Transition of Alkali Metal Salts. <i>Langmuir</i> , 2022, 38, 818-827.	3.5	4
23	A systematic study on the reaction mechanisms for the microencapsulation of a volatile phase change material (PCM) via one-step in situ polymerisation. <i>Chemical Engineering Science</i> , 2022, 252, 117497.	3.8	8
24	Combined enhancement of thermal and chemical performance of closed thermochemical energy storage system by optimized tree-like heat exchanger structures. <i>Applied Energy</i> , 2022, 311, 118633.	10.1	14
25	Valorization of phosphogypsum as a thermal energy storage material for low temperature applications. <i>Journal of Cleaner Production</i> , 2022, 342, 130839.	9.3	11
26	Energy storage for black start services: A review. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 691-704.	4.9	10
27	High-pressure carbon dioxide-hydrothermal enhance yield and methylene blue adsorption performance of banana pseudo-stem activated carbon. <i>Bioresource Technology</i> , 2022, 354, 127137.	9.6	33
28	Sludge-incinerated ash based shape-stable phase change composites for heavy metal fixation and building thermal energy storage. <i>Chemical Engineering Research and Design</i> , 2022, 162, 346-356.	5.6	16
29	A review on the fabrication methods for structurally stabilised composite phase change materials and their impacts on the properties of materials. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 159, 112134.	16.4	36
30	Microstructural improvement of solar salt based MgO composites through surface tension/wettability modification with SiO ₂ nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2022, 238, 111577.	6.2	7
31	Bamboo derived SiC ceramics-phase change composites for efficient, rapid, and compact solar thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2022, 240, 111726.	6.2	36
32	Effect of silica nanoparticle size on the stability and thermophysical properties of molten salts based nanofluids for thermal energy storage applications at concentrated solar power plants. <i>Journal of Energy Storage</i> , 2022, 51, 104276.	8.1	16
33	Direct solar-driven reduction of greenhouse gases into hydrocarbon fuels incorporating thermochemical energy storage via modified calcium looping. <i>Chemical Engineering Journal</i> , 2022, 440, 135955.	12.7	16
34	The role of MgO supported sodium sulfate molten salt for calcium looping thermochemical energy storage. <i>Chemical Engineering Journal</i> , 2022, 444, 136353.	12.7	8
35	Key components for Carnot Battery: Technology review, technical barriers and selection criteria. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 163, 112478.	16.4	49
36	Fast and stable solar/thermal energy storage via gradient SiC foam-based phase change composite. <i>International Journal of Heat and Mass Transfer</i> , 2022, 194, 123012.	4.8	19

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37	Experimental and numerical investigations of solar charging performances of 3D porous skeleton based latent heat storage devices. <i>Applied Energy</i> , 2022, 320, 119297.	10.1	5
38	Liquid air energy storage with effective recovery, storage and utilization of cold energy from liquid air evaporation. <i>Energy Conversion and Management</i> , 2022, 267, 115708.	9.2	7
39	A comprehensive review of composite phase change material based thermal management system for lithium-ion batteries. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112667.	16.4	55
40	Solar-driven calcination study of a calcium-based single particle for thermochemical energy storage. <i>Chemical Engineering Journal</i> , 2022, 450, 138140.	12.7	9
41	Mobile energy recovery and storage: Multiple energy-powered EVs and refuelling stations. <i>Energy</i> , 2022, 257, 124697.	8.8	3
42	A review of boiling heat transfer characteristics in binary mixtures. <i>International Journal of Heat and Mass Transfer</i> , 2021, 164, 120570.	4.8	15
43	Simplified force field for molecular dynamics simulations of amorphous SiO ₂ for solar applications. <i>International Journal of Thermal Sciences</i> , 2021, 160, 106647.	4.9	15
44	Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids. <i>Applied Thermal Engineering</i> , 2021, 182, 115868.	6.0	40
45	Decomposition kinetics of Al- and Fe-doped calcium carbonate particles with improved solar absorbance and cycle stability. <i>Chemical Engineering Journal</i> , 2021, 406, 126282.	12.7	50
46	Latent heat thermal energy storage: A bibliometric analysis explicating the paradigm from 2000â€“2019. <i>Journal of Energy Storage</i> , 2021, 33, 102027.	8.1	18
47	Liquid Air Energy Storage for Decentralized Micro Energy Networks with Combined Cooling, Heating, Hot Water and Power Supply. <i>Journal of Thermal Science</i> , 2021, 30, 1-17.	1.9	26
48	Nanofluids based on molten carbonate salts for high-temperature thermal energy storage: Thermophysical properties, stability, compatibility and life cycle analysis. <i>Solar Energy Materials and Solar Cells</i> , 2021, 220, 110838.	6.2	38
49	Enhanced thermal energy storage of nitrate salts by silica nanoparticles for concentrating solar power. <i>International Journal of Energy Research</i> , 2021, 45, 5248-5262.	4.5	25
50	Chapter 12. Modelling at Thermal Energy Storage Device Scale. <i>RSC Energy and Environment Series</i> , 2021, , 370-434.	0.5	1
51	Evaluation of Ga _{0.2} Li _{6.4} Nd ₃ Zr ₂ O ₁₂ garnets: exploiting dopant instability to create a mixed conductive interface to reduce interfacial resistance for all solid state batteries. <i>Dalton Transactions</i> , 2021, 50, 13786-13800.	3.3	6
52	Chapter 7. Manufacture of Thermal Energy Storage Materials. <i>RSC Energy and Environment Series</i> , 2021, , 121-190.	0.5	3
53	Water based synthesis of highly conductive GaxLi7~3xLa3Hf2O12 garnets with comparable critical current density to analogous GaxLi7~3xLa3Zr2O12 systems. <i>Dalton Transactions</i> , 2021, 50, 2364-2374.	3.3	6
54	Influence of Vacancy Defect of Calcium Oxide Surface on the Wettability of Molten Alkali Metal Salt in Calcium Looping Process. <i>Langmuir</i> , 2021, 37, 2503-2513.	3.5	6

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55	Nucleation of melt: From fundamentals to dispersed systems. <i>Advances in Colloid and Interface Science</i> , 2021, 289, 102361.	14.7	12
56	Carbon dioxide decomposition through gas exchange in barium calcium iron niobates. <i>Catalysis Today</i> , 2021, 364, 211-219.	4.4	6
57	HVDC Converter Cooling System with a Phase Change Dispersion. <i>Fluids</i> , 2021, 6, 117.	1.7	4
58	Taguchi and ANOVA analysis for the optimization of the microencapsulation of a volatile phase change material. <i>Journal of Materials Research and Technology</i> , 2021, 11, 667-680.	5.8	30
59	Progress and prospects of thermo-mechanical energy storage—a critical review. <i>Progress in Energy</i> , 2021, 3, 022001.	10.9	91
60	Numerical investigation of flow stratification behavior of binary particle mixture for high-temperature flue gas filtration on an inclined moving bed. <i>Powder Technology</i> , 2021, 382, 339-350.	4.2	3
61	A comprehensive review on sub-zero temperature cold thermal energy storage materials, technologies, and applications: State of the art and recent developments. <i>Applied Energy</i> , 2021, 288, 116555.	10.1	72
62	Solar-enhanced CO ₂ Conversion with CH ₄ over Synergetic NiCo Alloy Catalysts with Light-to-Fuel Efficiency of 33.8%. <i>Solar Rrl</i> , 2021, 5, 2100185.	5.8	31
63	3-D Printed Microjet Impingement Cooling for Thermal Management of Ultrahigh-Power GaN Transistors. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2021, 11, 748-754.	2.5	8
64	MgSO ₄ -expanded graphite composites for mass and heat transfer enhancement of thermochemical energy storage. <i>Solar Energy</i> , 2021, 220, 432-439.	6.1	44
65	Hydration kinetics of K ₂ CO ₃ , MgCl ₂ and vermiculite-based composites in view of low-temperature thermochemical energy storage. <i>Journal of Energy Storage</i> , 2021, 38, 102561.	8.1	29
66	Effect of chamber roughness and local smoothing on performance of a CAES axial turbine. <i>Renewable Energy</i> , 2021, 170, 500-516.	8.9	5
67	A power plant for integrated waste energy recovery from liquid air energy storage and liquefied natural gas. <i>Chinese Journal of Chemical Engineering</i> , 2021, 34, 242-257.	3.5	9
68	Performance enhancement of cold energy storage using phase change materials with fumed silica for air-conditioning applications. <i>International Journal of Energy Research</i> , 2021, 45, 16565-16575.	4.5	6
69	Granular porous calcium carbonate particles for scalable and high-performance solar-driven thermochemical heat storage. <i>Science China Technological Sciences</i> , 2021, 64, 2142-2152.	4.0	17
70	Adhesion strength and bonding mechanism of β -Fe (111)/ α -Al ₂ O ₃ (0001) interfaces with different terminations. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159529.	5.5	18
71	Red mud-molten salt composites for medium-high temperature thermal energy storage and waste heat recovery applications. <i>Journal of Hazardous Materials</i> , 2021, 413, 125407.	12.4	40
72	Experimental study on filtration characteristics of a novel moving granular bed filter. <i>Separation and Purification Technology</i> , 2021, 267, 118624.	7.9	7

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73	Evaluation of New PCM/PV Configurations for Electrical Energy Efficiency Improvement through Thermal Management of PV Systems. <i>Energies</i> , 2021, 14, 4130.	3.1	15
74	Liquid air energy storage (LAES): A review on technology state-of-the-art, integration pathways and future perspectives. <i>Advances in Applied Energy</i> , 2021, 3, 100047.	13.2	101
75	Diatomite-based magnesium sulfate composites for thermochemical energy storage: Preparation and performance investigation. <i>Solar Energy</i> , 2021, 224, 907-915.	6.1	18
76	Heat Transfer Performance Potential with a High-Temperature Phase Change Dispersion. <i>Energies</i> , 2021, 14, 4899.	3.1	6
77	New shape-stabilized phase change materials obtained by single-screw extruder. <i>Energy Storage</i> , 2021, 3, e268.	4.3	6
78	Solar-Enhanced CO ₂ Conversion with CH ₄ over Synergetic NiCo Alloy Catalysts with Light-to-Fuel Efficiency of 33.8%. <i>Solar Rrl</i> , 2021, 5, 2170085.	5.8	3
79	A phase change material (PCM) based passively cooled container for integrated road-rail cold chain transportation – An experimental study. <i>Applied Thermal Engineering</i> , 2021, 195, 117204.	6.0	41
80	Thermal performance enhancement of a phase change material (PCM) based portable box for cold chain applications. <i>Journal of Energy Storage</i> , 2021, 40, 102707.	8.1	34
81	Insight into the strengthening mechanism of $\hat{\pm}$ -Al ₂ O ₃ / $\hat{\pm}$ -Fe ceramic-metal interface doped with Cr, Ni, Mg, and Ti. <i>Ceramics International</i> , 2021, 47, 22810-22820.	4.8	15
82	High thermal conductivity and high energy density compatible latent heat thermal energy storage enabled by porous AlN ceramics composites. <i>International Journal of Heat and Mass Transfer</i> , 2021, 175, 121405.	4.8	47
83	Preparation and characterization of a heat storage material: Shape-stabilized KNO ₃ using a modified diatomite-based porous ceramic as the skeleton. <i>Ceramics International</i> , 2021, 47, 26301-26309.	4.8	19
84	Bifunctional biomorphic SiC ceramics embedded molten salts for ultrafast thermal and solar energy storage. <i>Materials Today Energy</i> , 2021, 21, 100764.	4.7	10
85	Nacre-like ceramics-based phase change composites for concurrent efficient solar-to-thermal conversion and rapid energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111240.	6.2	24
86	Improved thermal conductivity of form-stable NaNO ₃ : Using the skeleton of porous ceramic modified by SiC. <i>Solar Energy Materials and Solar Cells</i> , 2021, 231, 111310.	6.2	10
87	Fabrication of form stable composite phase change materials for thermal energy storage by direct powder incorporation with a preheating process. <i>Powder Technology</i> , 2021, 391, 544-556.	4.2	16
88	Modified diatomite-based porous ceramic to develop shape-stabilized NaNO ₃ salt with enhanced thermal conductivity for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2021, 231, 111328.	6.2	12
89	Dynamic analysis of a novel standalone liquid air energy storage system for industrial applications. <i>Energy Conversion and Management</i> , 2021, 245, 114537.	9.2	38
90	Particle size distribution in a granular bed filter. <i>Particuology</i> , 2021, 58, 108-117.	3.6	7

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91	Thermochemical heat storage performances of fluidized black CaCO ₃ pellets under direct concentrated solar irradiation. <i>Renewable Energy</i> , 2021, 178, 1353-1369.	8.9	33
92	A novel hybrid thermal management approach towards high-voltage battery pack for electric vehicles. <i>Energy Conversion and Management</i> , 2021, 247, 114676.	9.2	20
93	A novel composite phase change material for medium temperature thermal energy storage manufactured with a scalable continuous hot-melt extrusion method. <i>Applied Energy</i> , 2021, 303, 117591.	10.1	23
94	Improved thermophysical properties of shape-stabilized NaNO ₃ using a modified diatomite-based porous ceramic for solar thermal energy storage. <i>Renewable Energy</i> , 2021, 179, 327-338.	8.9	38
95	Revealing the atomic-scale structure and the fracture mechanism of the $\hat{\pm}$ -Al ₂ O ₃ / $\hat{\pm}$ ³ -Fe ceramic-metal interface. <i>Journal of Alloys and Compounds</i> , 2021, 885, 161163.	5.5	11
96	An improved ASU distillation process and DIM-LPB method for variable product ratio demand. <i>Separation and Purification Technology</i> , 2021, 277, 119499.	7.9	6
97	Sr-doped SmMnO ₃ perovskites for high-performance near-isothermal solar thermochemical CO ₂ -to-fuel conversion. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4295-4310.	4.9	20
98	Effect of carbon on the performance of red mud-molten salt composites for thermal management and waste heat recovery applications. <i>Journal of Energy Storage</i> , 2021, 44, 103363.	8.1	19
99	Performance and comparison of equalization methods for lithium ion batteries in series. <i>International Journal of Energy Research</i> , 2021, 45, 4669-4680.	4.5	8
100	Second Law Analysis of Latent Heat Based Thermal Energy Storage Systems. , 2021, , .		0
101	Phosphogypsum-Paraffin Composites for Low Temperature Thermal Energy Storage Applications. , 2021, 5, .		0
102	Calcium-based composites for direct solar-thermal conversion and thermochemical energy storage. <i>Chemical Engineering Journal</i> , 2020, 382, 122815.	12.7	100
103	Discharging performance enhancement of a phase change material based thermal energy storage device for transport air-conditioning applications. <i>Applied Thermal Engineering</i> , 2020, 165, 114582.	6.0	31
104	Functional phase change composites with highly efficient electrical to thermal energy conversion. <i>Renewable Energy</i> , 2020, 145, 2629-2636.	8.9	42
105	Modified Ca-Looping materials for directly capturing solar energy and high-temperature storage. <i>Energy Storage Materials</i> , 2020, 25, 836-845.	18.0	77
106	Thermal energy storage technologies for concentrated solar power “ A review from a materials perspective. <i>Renewable Energy</i> , 2020, 156, 1244-1265.	8.9	204
107	CFD-DNS simulation of irregular-shaped particle dissolution. <i>Particuology</i> , 2020, 50, 144-155.	3.6	14
108	A comparative investigation on the effect of different nanofluids on the thermal performance of two-phase closed thermosyphon. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119189.	4.8	96

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109	Dark calcium carbonate particles for simultaneous full-spectrum solar thermal conversion and large-capacity thermochemical energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2020, 207, 110364.	6.2	70
110	Wettability of molten sodium sulfate salt on nanoscale calcium oxide surface in high-temperature thermochemical energy storage. <i>Applied Surface Science</i> , 2020, 505, 144550.	6.1	12
111	Heating Characteristics and Economic Analysis of a Controllable On-Demand Heating System Based on Off-Peak Electricity Energy Storage. <i>Journal of Thermal Science</i> , 2020, 29, 343-351.	1.9	5
112	A novel volumetric absorber integrated with low-cost D-Mannitol and acetylene-black nanoparticles for solar-thermal-electricity generation. <i>Solar Energy Materials and Solar Cells</i> , 2020, 207, 110366.	6.2	18
113	Integrated biomethane liquefaction using exergy from the discharging end of a liquid air energy storage system. <i>Applied Energy</i> , 2020, 260, 114260.	10.1	42
114	Feasibility study on the year-round operation of PCM based free cooling systems in tropical climatic conditions. <i>Energy</i> , 2020, 192, 116695.	8.8	23
115	Skeleton materials for shape-stabilization of high temperature salts based phase change materials: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109539.	16.4	90
116	Enhancing deteriorated heat transfer of supercritical nitrogen in a vertical tube with wire matrix insert. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120358.	4.8	11
117	Flow stratification characteristics of binary particles in a moving granular bed. <i>Powder Technology</i> , 2020, 374, 482-491.	4.2	9
118	Thermal and Thermochemical Energy Conversion and Storage. <i>ACS Symposium Series</i> , 2020, , 257-301.	0.5	1
119	Attentional capture by a color singleton is stronger at spatially relevant than irrelevant locations: Evidence from an ERP study. <i>Psychophysiology</i> , 2020, 57, e13640.	2.4	5
120	Heat Transfer Characteristics of High-Temperature Dusty Flue Gas from Industrial Furnaces in a Granular Bed with Buried Tubes. <i>Energies</i> , 2020, 13, 3589.	3.1	0
121	Insight into diffusion-rebonding of Nano-Al ₂ O ₃ on Fe surface in high-temperature thermal energy storage system. <i>Applied Surface Science</i> , 2020, 530, 147249.	6.1	9
122	Giant Effect of Negative Compressibility in a Water-“Porous Metal”-CO ₂ System for Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39756-39763.	8.0	5
123	Effects of Synthesis Methods on Thermal Performance of Nitrate Salt Nanofluids for Concentrating Solar Power. <i>Energy & Fuels</i> , 2020, 34, 11606-11619.	5.1	14
124	Thermophysical properties of a phase change dispersion for cooling around 50Â°c. <i>International Journal of Refrigeration</i> , 2020, 119, 410-419.	3.4	18
125	Evaluation of the effect of site substitution of Pr doping in the lithium garnet system Li ₅ La ₃ Nb ₂ O ₁₂ . <i>Dalton Transactions</i> , 2020, 49, 10349-10359.	3.3	10
126	Hybrid 3 in 1 thermal energy storage system – Outlook for a novel storage strategy. <i>Applied Energy</i> , 2020, 274, 115024.	10.1	20

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127	Discharge of granular materials in a hemispherical bottom silo under vertical vibration. Powder Technology, 2020, 372, 128-135.	4.2	6
128	Special Issue on Energy Storage. Journal of Thermal Science, 2020, 29, 279-279.	1.9	0
129	High-temperature corrosion behaviour of metal alloys in commercial molten salts. Solar Energy, 2020, 201, 437-452.	6.1	36
130	Performance of a liquid cooling-based battery thermal management system with a composite phase change material. International Journal of Energy Research, 2020, 44, 4727-4742.	4.5	62
131	Influence of rheological behavior of molten sodium sulfate on adherent heterogeneous surface on performance of high-temperature thermochemical energy storage. Applied Surface Science, 2020, 525, 146530.	6.1	6
132	Inhibiting hot corrosion of molten $\text{Li}_2\text{CO}_3\text{-Na}_2\text{CO}_3\text{-K}_2\text{CO}_3$ salt through graphitization of construction materials for concentrated solar power. Solar Energy Materials and Solar Cells, 2020, 215, 110650.	6.2	31
133	Shape stability and flow behaviour of a phase change material based slurry in coupled fluid-thermo-electrical fields for electronic device cooling. Applied Thermal Engineering, 2020, 173, 115117.	6.0	6
134	Synthesis and Characterization of Disodium Hydrogen Phosphate Dodecahydrate-Lauric-Palmitic Acid Used for Indoor Energy Storage Floor Units. Journal of Thermal Science, 2020, 29, 477-485.	1.9	6
135	Performance enhancement of a phase-change-material based thermal energy storage device for air-conditioning applications. Energy and Buildings, 2020, 214, 109895.	6.7	31
136	Levelised Cost of Storage (LCOS) analysis of liquid air energy storage system integrated with Organic Rankine Cycle. Energy, 2020, 198, 117275.	8.8	60
137	Expanded graphite " Paraffin composite phase change materials: Effect of particle size on the composite structure and properties. Applied Thermal Engineering, 2020, 171, 115015.	6.0	93
138	Development of a heat transfer coefficient based design method of a thermal energy storage device for transport air-conditioning applications. Energy, 2020, 196, 117083.	8.8	11
139	Cooling performance of a thermal energy storage-based portable box for cold chain applications. Journal of Energy Storage, 2020, 28, 101238.	8.1	53
140	High performance cooling of a HVDC converter using a fatty acid ester-based phase change dispersion in a heat sink with double-layer oblique-crossed ribs. International Journal of Energy Research, 2020, 44, 5819-5840.	4.5	6
141	Experimental and numerical studies of a fatty acid based phase change dispersion for enhancing cooling of high voltage electrical devices. Energy, 2020, 198, 117280.	8.8	14
142	Investigation on the thermal energy storage characteristics in a spouted bed based on different nozzle numbers. Energy Reports, 2020, 6, 127-136.	5.1	6
143	Wettability of NaNO_3 and KNO_3 on MgO and Carbon Surfaces"Understanding the Substrate and the Length Scale Effects. Journal of Physical Chemistry C, 2020, 124, 8140-8152.	3.1	11
144	Effect of SiO_2 nanoparticle addition on the wetting and rheological properties of solar salt. Solar Energy Materials and Solar Cells, 2020, 210, 110483.	6.2	13

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145	Hierarchical macro-nanoporous metals for leakage-free high-thermal conductivity shape-stabilized phase change materials. <i>Applied Energy</i> , 2020, 269, 115088.	10.1	52
146	Degradability comparison of poly(butylene adipate terephthalate) and its composites filled with starch and calcium carbonate in different aquatic environments. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46916.	2.6	27
147	Performance Simulation and Benefit Analysis of Ammonia Absorption Cooling and Heating Dual-Supply System Based on Off-Peak Electricity Heat Storage. <i>Energies</i> , 2019, 12, 2298.	3.1	2
148	Mechanism of Specific Heat Capacity Enhancement of Molten Salts Based Nanofluids for Thermal Energy Storage - A Molecular Study. , 2019, , .		4
149	Numerical study of integrated latent heat thermal energy storage devices using nanoparticle-enhanced phase change materials. <i>Solar Energy</i> , 2019, 194, 724-741.	6.1	36
150	A novel high temperature electrical storage heater using an inorganic salt based composite phase change material. <i>Energy Storage</i> , 2019, 1, e88.	4.3	7
151	Experimental study on high concentration entrainment of ultrafine powder. <i>Powder Technology</i> , 2019, 344, 133-139.	4.2	7
152	Composite phase change materials for thermal energy storage: From molecular modelling based formulation to innovative manufacture. <i>Energy Procedia</i> , 2019, 158, 4510-4516.	1.8	3
153	Round robin test on enthalpies of redox materials for thermochemical heat storage: Perovskites. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	4
154	Fabrication of form stable NaCl-Al ₂ O ₃ composite for thermal energy storage by cold sintering process. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 727-735.	4.4	34
155	Effect of temperature on the internal structure of solar salt-SiO ₂ . <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
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