Yulong Ding

List of Publications by Year
in descending order

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475	29,886	6254 80	6654 156
papers	citations	h-index	g-index

489	489	489	20234
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress in electrical energy storage system: A critical review. Progress in Natural Science: Materials International, 2009, 19, 291-312.	4.4	2,739
2	Experimental investigation into convective heat transfer of nanofluids at the entrance region under laminar flow conditions. International Journal of Heat and Mass Transfer, 2004, 47, 5181-5188.	4.8	1,412
3	Heat transfer of aqueous suspensions of carbon nanotubes (CNT nanofluids). International Journal of Heat and Mass Transfer, 2006, 49, 240-250.	4.8	1,233
4	Investigation into the antibacterial behaviour of suspensions of ZnO nanoparticles (ZnO nanofluids). Journal of Nanoparticle Research, 2007, 9, 479-489.	1.9	1,229
5	A benchmark study on the thermal conductivity of nanofluids. Journal of Applied Physics, 2009, 106, .	2.5	897
6	Heat transfer and flow behaviour of aqueous suspensions of TiO2 nanoparticles (nanofluids) flowing upward through a vertical pipe. International Journal of Heat and Mass Transfer, 2007, 50, 2272-2281.	4.8	812
7	Rheological behaviour of nanofluids. New Journal of Physics, 2007, 9, 367-367.	2.9	485
8	Experimental investigation into the pool boiling heat transfer of aqueous based Î³-alumina nanofluids. Journal of Nanoparticle Research, 2005, 7, 265-274.	1.9	438
9	Rheological behaviour of ethylene glycol based titania nanofluids. Chemical Physics Letters, 2007, 444, 333-337.	2.6	430
10	Effective Thermal Conductivity of Aqueous Suspensions of Carbon Nanotubes (Carbon Nanotube) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	417
11	ZnO nanofluids â€“ A potential antibacterial agent. Progress in Natural Science: Materials International, 2008, 18, 939-944.	4.4	396
12	Mechanistic investigation into antibacterial behaviour of suspensions of ZnO nanoparticles against E. coli. Journal of Nanoparticle Research, 2010, 12, 1625-1636.	1.9	393
13	Formulation of nanofluids for natural convective heat transfer applications. International Journal of Heat and Fluid Flow, 2005, 26, 855-864.	2.4	382
14	Equilibria and kinetics of CO2 adsorption on hydrotalcite adsorbent. Chemical Engineering Science, 2000, 55, 3461-3474.	3.8	336
15	A review of pumped hydro energy storage development in significant international electricity markets. Renewable and Sustainable Energy Reviews, 2016, 61, 421-432.	16.4	283
16	Adsorption-enhanced steamâ€“methane reforming. Chemical Engineering Science, 2000, 55, 3929-3940.	3.8	274
17	Antimicrobial activities of ZnO powderâ€coated PVC film to inactivate food pathogens. International Journal of Food Science and Technology, 2009, 44, 2161-2168.	2.7	243
18	Predicting thermal conductivity of liquid suspensions of nanoparticles (nanofluids) based on rheology. Particuology, 2009, 7, 151-157.	3.6	243

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19	Numerical investigation into the convective heat transfer of TiO2 nanofluids flowing through a straight tube under the laminar flow conditions. Applied Thermal Engineering, 2009, 29, 1965-1972.	6.0	236
20	Heat transfer and flow behaviour of aqueous suspensions of titanate nanotubes (nanofluids). Powder Technology, 2008, 183, 63-72.	4.2	234
21	Particle migration in a flow of nanoparticle suspensions. Powder Technology, 2005, 149, 84-92.	4.2	232
22	Liquid air energy storage (LAES) with packed bed cold thermal storage â€“ From component to system level performance through dynamic modelling. Applied Energy, 2017, 190, 84-98.	10.1	216
23	Thermal management performances of PCM/water cooling-plate using for lithium-ion battery module based on non-uniform internal heat source. Applied Thermal Engineering, 2017, 126, 17-27.	6.0	213
24	Dynamic simulation of Adiabatic Compressed Air Energy Storage (A-CAES) plant with integrated thermal storage â€“ Link between components performance and plant performance. Applied Energy, 2017, 185, 16-28.	10.1	205
25	Thermal energy storage technologies for concentrated solar power â€“ A review from a materials perspective. Renewable Energy, 2020, 156, 1244-1265.	8.9	204
26	Heat Transfer Intensification Using Nanofluids. KONA Powder and Particle Journal, 2007, 25, 23-38.	1.7	202
27	Adiabatic Compressed Air Energy Storage with packed bed thermal energy storage. Applied Energy, 2015, 155, 804-815.	10.1	196
28	Natural convective heat transfer of suspensions of titanium dioxide nanoparticles (nanofluids). IEEE Nanotechnology Magazine, 2006, 5, 220-227.	2.0	192
29	Load shifting of nuclear power plants using cryogenic energy storage technology. Applied Energy, 2014, 113, 1710-1716.	10.1	177
30	Enhancement of round trip efficiency of liquid air energy storage through effective utilization of heat of compression. Applied Energy, 2017, 206, 1632-1642.	10.1	171
31	Hydrogen production by sorption-enhanced steam reforming of glycerol. Bioresource Technology, 2009, 100, 3540-3547.	9.6	168
32	Effective thermal and electrical conductivity of carbon nanotube composites. Chemical Physics Letters, 2007, 434, 297-300.	2.6	160
33	Thermogravimetric kinetics of crude glycerol. Bioresource Technology, 2009, 100, 2613-2620.	9.6	160
34	Solids motion in bubbling gas fluidised beds. Chemical Engineering Science, 2000, 55, 5291-5300.	3.8	150
35	Design of Hydrophobic Polyoxometalate Hybrid Assemblies Beyond Surfactant Encapsulation. Chemistry - A European Journal, 2008, 14, 2349-2354.	3.3	141
36	Heat transfer of gas flow through a packed bed. Chemical Engineering Science, 2006, 61, 3532-3542.	3.8	138

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37	Rheological behaviour of ethylene glycol-titanate nanotube nanofluids. Journal of Nanoparticle Research, 2009, 11, 1513-1520.	1.9	136
38	Effect of particle migration on heat transfer in suspensions of nanoparticles flowing through minichannels. Microfluidics and Nanofluidics, 2005, 1, 183-189.	2.2	133
39	Forced convective heat transfer of nanofluids. Advanced Powder Technology, 2007, 18, 813-824.	4.1	132
40	Rheological behaviour of nanofluids containing tube / rod-like nanoparticles. Powder Technology, 2009, 194, 132-141.	4.2	126
41	Thermal energy charging behaviour of a heat exchange device with a zigzag plate configuration containing multi-phase-change-materials (m-PCMs). Applied Energy, 2015, 142, 328-336.	10.1	124
42	Micro encapsulated & form-stable phase change materials for high temperature thermal energy storage. Applied Energy, 2018, 217, 212-220.	10.1	123
43	n-Alkanes Phase Change Materials and Their Microencapsulation for Thermal Energy Storage: A Critical Review. Energy & Fuels, 2018, 32, 7262-7293.	5.1	123
44	Dynamic thermal management for industrial waste heat recovery based on phase change material thermal storage. Applied Energy, 2019, 236, 1168-1182.	10.1	123
45	Investigation of thermal management for lithium-ion pouch battery module based on phase change slurry and mini channel cooling plate. Energy, 2019, 167, 561-574.	8.8	123
46	A trigeneration system based on compressed air and thermal energy storage. Applied Energy, 2012, 99, 316-323.	10.1	121
47	Steam reforming of crude glycerol with in situ CO2 sorption. Bioresource Technology, 2010, 101, 2436-2442.	9.6	120
48	Thermal conductivity measurement techniques for characterizing thermal energy storage materials â€“ A review. Renewable and Sustainable Energy Reviews, 2019, 108, 32-52.	16.4	120
49	Numerical investigation of PCM melting process in sleeve tube with internal fins. Energy Conversion and Management, 2016, 110, 428-435.	9.2	118
50	Thermodynamic study on the effect of cold and heat recovery on performance of liquid air energy storage. Applied Energy, 2018, 221, 86-99.	10.1	118
51	Solids motion in rolling mode rotating drums operated at low to medium rotational speeds. Chemical Engineering Science, 2001, 56, 1769-1780.	3.8	117
52	Effect of nanoâ€ZnOâ€coated active packaging on quality of freshâ€cut â€˜Fujiâ€™ apple. International Journal of Food Science and Technology, 2011, 46, 1947-1955.	2.7	116
53	Stability of glycol nanofluids â€” The theory and experiment. Powder Technology, 2013, 239, 72-77.	4.2	116
54	Simulation and experimental study of the specific heat capacity of molten salt based nanofluids. Applied Thermal Engineering, 2017, 111, 1517-1522.	6.0	112

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55	A review of performance investigation and enhancement of shell and tube thermal energy storage device containing molten salt based phase change materials for medium and high temperature applications. Applied Energy, 2019, 255, 113806.	10.1	111
56	Thermodynamic analyses of adsorption-enhanced steam reforming of glycerol for hydrogen production. International Journal of Hydrogen Energy, 2009, 34, 7208-7222.	7.1	110
57	Ultrasound-assisted green synthesis of nanocrystalline ZnO in the ionic liquid [hmim][NTf2]. Ultrasonics Sonochemistry, 2009, 16, 120-123.	8.2	107
58	Tribological Behaviour of a Lubricant Oil Containing Boron Nitride Nanoparticles. Procedia Engineering, 2015, 102, 1038-1045.	1.2	107
59	Role of physical and chemical interactions in the antibacterial behavior of ZnO nanoparticles against E. coli. Materials Science and Engineering C, 2016, 69, 1361-1366.	7.3	107
60	Flexible integration of liquid air energy storage with liquefied natural gas regasification for power generation enhancement. Applied Energy, 2019, 251, 113355.	10.1	107
61	Carbonate-salt-based composite materials for medium- and high-temperature thermal energy storage. Particuology, 2014, 15, 77-81.	3.6	105
62	Triboelectrification of pharmaceutical powders by particle impact. International Journal of Pharmaceutics, 2007, 334, 149-155.	5.2	104
63	Renewable energy carriers: Hydrogen or liquid air/nitrogen?. Applied Thermal Engineering, 2010, 30, 1985-1990.	6.0	104
64	Three-dimensional graphene/polyaniline composite material for high-performance supercapacitor applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 293-298.	3.5	104
65	Mechanical Dispersion of Nanoparticles and Its Effect on the Specific Heat Capacity of Impure Binary Nitrate Salt Mixtures. Nanomaterials, 2015, 5, 1136-1146.	4.1	101
66	Liquid air energy storage (LAES): A review on technology state-of-the-art, integration pathways and future perspectives. Advances in Applied Energy, 2021, 3, 100047.	13.2	101
67	Calcium-based composites for direct solar-thermal conversion and thermochemical energy storage. Chemical Engineering Journal, 2020, 382, 122815.	12.7	100
68	Antibacterial and Physical Properties of Poly(vinyl chloride)-based Film Coated with ZnO Nanoparticles. Food Science and Technology International, 2010, 16, 225-232.	2.2	96
69	Multi-walled carbon nanotubes added to Na2CO3/MgO composites for thermal energy storage. Particuology, 2014, 15, 56-60.	3.6	96
70	Thermal-physical properties of nanoparticle-seeded nitrate molten salts. Renewable Energy, 2018, 120, 275-288.	8.9	96
71	Liquid air energy storage flexibly coupled with LNG regasification for improving air liquefaction. Applied Energy, 2019, 250, 1190-1201.	10.1	96
72	A comparative investigation on the effect of different nanofluids on the thermal performance of two-phase closed thermosyphon. International Journal of Heat and Mass Transfer, 2020, 149, 119189.	4.8	96

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73	Sodium sulfateâ€“diatomite composite materials for high temperature thermal energy storage. Powder Technology, 2015, 282, 37-42.	4.2	95
74	Expanded graphite â€“ Paraffin composite phase change materials: Effect of particle size on the composite structure and properties. Applied Thermal Engineering, 2020, 171, 115015.	6.0	93
75	Progress and prospects of thermo-mechanical energy storageâ€”a critical review. Progress in Energy, 2021, 3, 022001.	10.9	91
76	Skeleton materials for shape-stabilization of high temperature salts based phase change materials: A critical review. Renewable and Sustainable Energy Reviews, 2020, 119, 109539.	16.4	90
77	Composite Materials for Thermal Energy Storage: Enhancing Performance through Microstructures. ChemSusChem, 2014, 7, 1318-1325.	6.8	89
78	A comparative study on hydrogen production from steam-glycerol reforming: thermodynamics and experimental. Renewable Energy, 2011, 36, 779-788.	8.9	88
79	A multilayer electro-thermal model of pouch battery during normal discharge and internal short circuit process. Applied Thermal Engineering, 2017, 120, 506-516.	6.0	85
80	Sodium nitrate â€“ Diatomite composite materials for thermal energy storage. Solar Energy, 2017, 146, 494-502.	6.1	84
81	Thermal energy storage of molten salt â€“based nanofluid containing nano-encapsulated metal alloy phase change materials. Energy, 2019, 167, 912-920.	8.8	82
82	A concise model for evaluating water electrolysis. International Journal of Hydrogen Energy, 2011, 36, 14335-14341.	7.1	81
83	Wide spectrum solar energy harvesting through an integrated photovoltaic and thermoelectric system. Particuology, 2014, 15, 39-44.	3.6	81
84	Enhanced heat transfer in a parabolic trough solar receiver by inserting rods and using molten salt as heat transfer fluid. Applied Energy, 2018, 220, 337-350.	10.1	80
85	Granular motion in rotating drums: bed turnover time and slumpingâ€“rolling transition. Powder Technology, 2002, 124, 18-27.	4.2	79
86	Segregation of granular flow in the transverse plane of a rolling mode rotating drum. International Journal of Multiphase Flow, 2002, 28, 635-663.	3.4	77
87	Modified Ca-Looping materials for directly capturing solar energy and high-temperature storage. Energy Storage Materials, 2020, 25, 836-845.	18.0	77
88	An economic feasibility assessment of decoupled energy storage in the UK: With liquid air energy storage as a case study. Applied Energy, 2018, 225, 244-257.	10.1	75
89	Numerical study on energy and exergy performances of a microencapsulated phase change material slurry based photovoltaic/thermal module. Energy Conversion and Management, 2019, 183, 708-720.	9.2	73
90	Rheological and heat transfer behaviour of the ionic liquid, [C4mim][NTf2]. International Journal of Heat and Fluid Flow, 2008, 29, 149-155.	2.4	72

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91	A comprehensive review on sub-zero temperature cold thermal energy storage materials, technologies, and applications: State of the art and recent developments. Applied Energy, 2021, 288, 116555.	10.1	72
92	Scaling relationships for rotating drums. Chemical Engineering Science, 2001, 56, 3737-3750.	3.8	70
93	Neural substrates for visual perceptual grouping in humans. Psychophysiology, 2001, 38, 926-935.	2.4	70
94	Dark calcium carbonate particles for simultaneous full-spectrum solar thermal conversion and large-capacity thermochemical energy storage. Solar Energy Materials and Solar Cells, 2020, 207, 110364.	6.2	70
95	Thermal energy storage: Challenges and the role of particle technology. Particuology, 2014, 15, 2-8.	3.6	69
96	Fundamentals and applications of cryogen as a thermal energy carrier: A critical assessment. International Journal of Thermal Sciences, 2010, 49, 941-949.	4.9	68
97	Spatio-temporal variation of stable isotopes in precipitation in the Heihe River Basin, Northwestern China. Environmental Earth Sciences, 2010, 61, 1123-1134.	2.7	68
98	Dispersion stability and thermal conductivity of propylene glycol-based nanofluids. Journal of Nanoparticle Research, 2011, 13, 5049-5055.	1.9	68
99	Historical daily gas and electrical energy flows through Great Britain's transmission networks and the decarbonisation of domestic heat. Energy Policy, 2013, 61, 301-305.	8.8	68
100	Active cooling based battery thermal management using composite phase change materials. Energy Procedia, 2019, 158, 4933-4940.	1.8	66
101	Flow and heat transfer behaviour of nanofluids in microchannels. Progress in Natural Science: Materials International, 2018, 28, 225-234.	4.4	65
102	Form-stable LiNO 3 â€“NaNO 3 â€“KNO 3 â€“Ca(NO 3) 2 /calcium silicate composite phase change material (PCM) for mid-low temperature thermal energy storage. Energy Conversion and Management, 2015, 106, 165-172.	9.2	63
103	Performance of a liquid coolingâ€based battery thermal management system with a composite phase change material. International Journal of Energy Research, 2020, 44, 4727-4742.	4.5	62
104	Experimental investigation on thermal properties of silver nanofluids. International Journal of Heat and Fluid Flow, 2015, 56, 80-90.	2.4	60
105	Comparative study of flexibility enhancement technologies for the coal-fired combined heat and power plant. Energy Conversion and Management, 2019, 184, 15-23.	9.2	60
106	Levelised Cost of Storage (LCOS) analysis of liquid air energy storage system integrated with Organic Rankine Cycle. Energy, 2020, 198, 117275.	8.8	60
107	Lattice Boltzmann simulation of alumina-water nanofluid in a square cavity. Nanoscale Research Letters, 2011, 6, 184.	5.7	58
108	Thermo-mechanical analysis of microcapsules containing phase change materials for cold storage. Applied Energy, 2018, 211, 1190-1202.	10.1	58

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109	A one-step method for producing microencapsulated phase change materials. Particuology, 2010, 8, 588-590.	3.6	56
110	Role of PCM addition on stratification behaviour in a thermal storage tank â€“ An experimental study. Energy, 2016, 115, 1168-1178.	8.8	56
111	Loofah-derived eco-friendly SiC ceramics for high-performance sunlight capture, thermal transport, and energy storage. Energy Storage Materials, 2022, 45, 786-795.	18.0	56
112	Effect of granulation scale-up on the strength of granules. Powder Technology, 2009, 189, 304-312.	4.2	55
113	Air fuelled zero emission road transportation: A comparative study. Applied Energy, 2011, 88, 337-342.	10.1	55
114	A comprehensive review of composite phase change material based thermal management system for lithium-ion batteries. Renewable and Sustainable Energy Reviews, 2022, 167, 112667.	16.4	55
115	Potential of â€˜nanofluidsâ€™ to further intensify microreactors. Green Chemistry, 2008, 10, 670.	9.0	54
116	Development of MIL-101(Cr)/GrO composites for adsorption heat pump applications. Microporous and Mesoporous Materials, 2017, 244, 180-191.	4.4	54
117	Revisiting the earliest electrophysiological correlate of familiar face recognition. International Journal of Psychophysiology, 2017, 120, 42-53.	1.0	54
118	Pool Boiling Heat Transfer of Aqueous TiO2-Based Nanofluids. Journal of Enhanced Heat Transfer, 2006, 13, 231-244.	1.1	54
119	The breakage behaviour of Aspirin under quasi-static indentation and single particle impact loading: Effect of crystallographic anisotropy. International Journal of Pharmaceutics, 2011, 411, 49-63.	5.2	53
120	A novel low-temperature fabrication approach of composite phase change materials for high temperature thermal energy storage. Applied Energy, 2019, 237, 367-377.	10.1	53
121	Cooling performance of a thermal energy storage-based portable box for cold chain applications. Journal of Energy Storage, 2020, 28, 101238.	8.1	53
122	Aggregation and settling in aqueous polydisperse alumina nanoparticle suspensions. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	52
123	Hierarchical macro-nanoporous metals for leakage-free high-thermal conductivity shape-stabilized phase change materials. Applied Energy, 2020, 269, 115088.	10.1	52
124	MgO based composite phase change materials for thermal energy storage: The effects of MgO particle density and size on microstructural characteristics as well as thermophysical and mechanical properties. Applied Energy, 2019, 250, 81-91.	10.1	51
125	Development of a novel approach towards predicting the milling behaviour of pharmaceutical powders. European Journal of Pharmaceutical Sciences, 2004, 23, 327-336.	4.0	50
126	One-step approach to novel Bi₄V₂O₁₁hierarchical hollow microspheres with high visible-light-driven photocatalytic activities. Journal of Materials Chemistry A, 2013, 1, 877-883.	10.3	50

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127	PCMs Heat Transfer Performance Enhancement with Expanded Graphite and its Thermal Stability. Procedia Engineering, 2015, 102, 1877-1884.	1.2	50
128	Decomposition kinetics of Al- and Fe-doped calcium carbonate particles with improved solar absorbance and cycle stability. Chemical Engineering Journal, 2021, 406, 126282.	12.7	50
129	Encapsulation of phase change materials using rice-husk-char. Applied Energy, 2016, 182, 274-281.	10.1	49
130	Hybrid strontium bromide-natural graphite composites for low to medium temperature thermochemical energy storage: Formulation, fabrication and performance investigation. Energy Conversion and Management, 2018, 166, 233-240.	9.2	49
131	Investigation on the thermal performance of a high temperature packed bed thermal energy storage system containing carbonate salt based composite phase change materials. Applied Energy, 2019, 247, 374-388.	10.1	49
132	Key components for Carnot Battery: Technology review, technical barriers and selection criteria. Renewable and Sustainable Energy Reviews, 2022, 163, 112478.	16.4	49
133	Effect of scale of operation on granule strength in high shear granulators. Chemical Engineering Science, 2008, 63, 915-923.	3.8	48
134	Experimental study on the heat transfer characteristics of a low melting point salt in a parabolic trough solar collector system. Applied Thermal Engineering, 2015, 89, 748-754.	6.0	48
135	Thermal conductivity enhancement of recycled high density polyethylene as a storage media for latent heat thermal energy storage. Solar Energy Materials and Solar Cells, 2016, 152, 103-110.	6.2	48
136	Synergetic enhancement of heat storage density and heat transport ability of phase change materials inlaid in 3D hierarchical ceramics. Applied Energy, 2022, 306, 117995.	10.1	48
137	Measurement of Charge Transfer due to Single Particle Impact. Particle and Particle Systems Characterization, 2006, 23, 133-137.	2.3	47
138	In situ production of titanium dioxide nanoparticles in molten salt phase for thermal energy storage and heat-transfer fluid applications. Journal of Nanoparticle Research, 2016, 18, 150.	1.9	47
139	Comparative study of the transient natural convection in an underground water pit thermal storage. Applied Energy, 2017, 208, 1162-1173.	10.1	47
140	Carbonate salt based composite phase change materials for medium and high temperature thermal energy storage: A microstructural study. Solar Energy Materials and Solar Cells, 2019, 196, 25-35.	6.2	47
141	High thermal conductivity and high energy density compatible latent heat thermal energy storage enabled by porous AlN ceramics composites. International Journal of Heat and Mass Transfer, 2021, 175, 121405.	4.8	47
142	Stability of nanofluids in quiescent and shear flow fields. Nanoscale Research Letters, 2011, 6, 231.	5.7	46
143	Bubble nucleation on nano- to micro-size cavities and posts: An experimental validation of classical theory. Journal of Applied Physics, 2012, 112, .	2.5	45
144	Heat transfer behaviour of supercritical nitrogen in the large specific heat region flowing in a vertical tube. Energy, 2017, 134, 1096-1106.	8.8	45

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145	Investigation of the Granular Behaviour in a Rotating Drum Operated over a Wide Range of Rotational Speed. Chemical Engineering Research and Design, 2003, 81, 936-945.	5.6	44
146	Specificity and generalization of visual perceptual learning in humans: an event-related potential study. NeuroReport, 2003, 14, 587-590.	1.2	44
147	Solids behaviour in a gasâ€“solid two-phase mixture flowing through a packed particle bed. Chemical Engineering Science, 2005, 60, 5231-5239.	3.8	44
148	Heat Transfer and Rheological Behaviour of Nanofluids â€“ A Review. Advances in Transport Phenomena, 2009, , 135-177.	0.5	44
149	Application of silver nanofluid containing oleic acid surfactant in a thermosyphon economizer. Nanoscale Research Letters, 2011, 6, 315.	5.7	44
150	MgSO4-expanded graphite composites for mass and heat transfer enhancement of thermochemical energy storage. Solar Energy, 2021, 220, 432-439.	6.1	44
151	Rheological and tribological behaviour of lubricating oils containing platelet MoS2 nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	43
152	Liquid nitrogen injection into water: Pressure build-up and heat transfer. Cryogenics, 2006, 46, 740-748.	1.7	42
153	Study of cycle-to-cycle dynamic characteristics of adiabatic Compressed Air Energy Storage using packed bed Thermal Energy Storage. Energy, 2017, 141, 2120-2134.	8.8	42
154	Functional phase change composites with highly efficient electrical to thermal energy conversion. Renewable Energy, 2020, 145, 2629-2636.	8.9	42
155	Integrated biomethane liquefaction using exergy from the discharging end of a liquid air energy storage system. Applied Energy, 2020, 260, 114260.	10.1	42
156	Some aspects of heat transfer in rolling mode rotating drums operated at low to medium temperatures. Powder Technology, 2001, 121, 168-181.	4.2	41
157	Environmental degradation in the Hexi Corridor region of China over the last 50 years and comprehensive mitigation and rehabilitation strategies. Environmental Geology, 2003, 44, 68-77.	1.2	41
158	Analysis of the milling rate of pharmaceutical powders using the Distinct Element Method (DEM). Chemical Engineering Science, 2005, 60, 1441-1448.	3.8	41
159	The properties of ZnO nanofluids and the role of H2O2 in the disinfection activity against Escherichia coli. Water Research, 2013, 47, 4013-4021.	11.3	41
160	Enhancement in free cooling potential through PCM based storage system integrated with direct evaporative cooling (DEC) unit. Energy, 2018, 144, 443-455.	8.8	41
161	A phase change material (PCM) based passively cooled container for integrated road-rail cold chain transportation â€“ An experimental study. Applied Thermal Engineering, 2021, 195, 117204.	6.0	41
162	An integrated solar-cryogen hybrid power system. Renewable Energy, 2012, 37, 76-81.	8.9	40

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163	Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids. Applied Thermal Engineering, 2021, 182, 115868.	6.0	40
164	Red mud-molten salt composites for medium-high temperature thermal energy storage and waste heat recovery applications. Journal of Hazardous Materials, 2021, 413, 125407.	12.4	40
165	Rheology of Solar-Salt based nanofluids for concentrated solar power. Influence of the salt purity, nanoparticle concentration, temperature and rheometer geometry. Solar Energy Materials and Solar Cells, 2018, 176, 357-373.	6.2	39
166	Flow of a gasâ€“solid two-phase mixture through a packed bed. Chemical Engineering Science, 2004, 59, 3071-3079.	3.8	38
167	Direct and inverse mixed convections in an enclosure with ventilation ports. International Journal of Heat and Mass Transfer, 2009, 52, 4400-4412.	4.8	38
168	Molecular dynamics simulation of solar salt (NaNO3-KNO3) mixtures. Solar Energy Materials and Solar Cells, 2019, 200, 109897.	6.2	38
169	Nanofluids based on molten carbonate salts for high-temperature thermal energy storage: Thermophysical properties, stability, compatibility and life cycle analysis. Solar Energy Materials and Solar Cells, 2021, 220, 110838.	6.2	38
170	Dynamic analysis of a novel standalone liquid air energy storage system for industrial applications. Energy Conversion and Management, 2021, 245, 114537.	9.2	38
171	Improved thermophysical properties of shape-stabilized NaNO3 using a modified diatomite-based porous ceramic for solar thermal energy storage. Renewable Energy, 2021, 179, 327-338.	8.9	38
172	ERP evidence for distinct mechanisms of fast and slow visual perceptual learning. Neuropsychologia, 2010, 48, 1869-1874.	1.6	37
173	An investigation of a household size trigeneration running with hydrogen. Applied Energy, 2011, 88, 2176-2182.	10.1	37
174	Heat transfer performance of thermal energy storage components containing composite phase change materials. IET Renewable Power Generation, 2016, 10, 1515-1522.	3.1	37
175	Towards improving charge/discharge rate of latent heat thermal energy storage (LHTES) by embedding metal foams in phase change materials (PCMs). Chemical Engineering and Processing: Process Intensification, 2016, 108, 181-188.	3.6	37
176	New radial turbine dynamic modelling in a low-temperature adiabatic compressed air energy storage system discharging process. Energy Conversion and Management, 2017, 153, 144-156.	9.2	37
177	Molecular dynamics simulation on thermal enhancement for carbon nano tubes (CNTs) based phase change materials (PCMs). International Journal of Heat and Mass Transfer, 2022, 182, 122017.	4.8	37
178	An optimal design methodology for large-scale gas liquefaction. Applied Energy, 2012, 99, 484-490.	10.1	36
179	A cryogen-based peak-shaving technology: systematic approach and techno-economic analysis. International Journal of Energy Research, 2013, 37, 547-557.	4.5	36
180	Numerical study of integrated latent heat thermal energy storage devices using nanoparticle-enhanced phase change materials. Solar Energy, 2019, 194, 724-741.	6.1	36

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181	High-temperature corrosion behaviour of metal alloys in commercial molten salts. Solar Energy, 2020, 201, 437-452.	6.1	36
182	A review on the fabrication methods for structurally stabilised composite phase change materials and their impacts on the properties of materials. Renewable and Sustainable Energy Reviews, 2022, 159, 112134.	16.4	36
183	Bamboo derived SiC ceramics-phase change composites for efficient, rapid, and compact solar thermal energy storage. Solar Energy Materials and Solar Cells, 2022, 240, 111726.	6.2	36
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