

Changying Zhao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

202 papers	8,226 citations	39 h-index	87 g-index
211 ext. papers	9,845 ext. citations	5.1 avg, IF	7.06 L-index

#	Paper	IF	Citations
202	Review on thermal energy storage with phase change materials (PCMs) in building applications. <i>Applied Energy</i> , 2012 , 92, 593-605	10.7	1097
201	A review of solar collectors and thermal energy storage in solar thermal applications. <i>Applied Energy</i> , 2013 , 104, 538-553	10.7	1047
200	Heat transfer enhancement for thermal energy storage using metal foams embedded within phase change materials (PCMs). <i>Solar Energy</i> , 2010 , 84, 1402-1412	6.8	483
199	Review on thermal transport in high porosity cellular metal foams with open cells. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 3618-3632	4.9	336
198	Review on microencapsulated phase change materials (MEPCMs): Fabrication, characterization and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 3813-3832	16.2	334
197	A numerical investigation of heat transfer in phase change materials (PCMs) embedded in porous metals. <i>Energy</i> , 2011 , 36, 5539-5546	7.9	276
196	Thermal analysis on metal-foam filled heat exchangers. Part I: Metal-foam filled pipes. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 2751-2761	4.9	246
195	Double-layer nanoparticle-based coatings for efficient terrestrial radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 168, 78-84	6.4	228
194	Experimental investigations on heat transfer in phase change materials (PCMs) embedded in porous materials. <i>Applied Thermal Engineering</i> , 2011 , 31, 970-977	5.8	221
193	The temperature dependence of effective thermal conductivity of open-celled steel alloy foams. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 367, 123-131	5.3	148
192	Thermal radiation in ultralight metal foams with open cells. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 2927-2939	4.9	147
191	Thermal analysis on metal-foam filled heat exchangers. Part II: Tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 2762-2770	4.9	136
190	Analysis of microchannel heat sinks for electronics cooling. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 4857-4869	4.9	134
189	Synthesis, characterization and thermal properties of novel nanoencapsulated phase change materials for thermal energy storage. <i>Solar Energy</i> , 2012 , 86, 1149-1154	6.8	123
188	Thermal Transport in High Porosity Cellular Metal Foams. <i>Journal of Thermophysics and Heat Transfer</i> , 2004 , 18, 309-317	1.3	114
187	Convective heat dissipation with lattice-frame materials. <i>Mechanics of Materials</i> , 2004 , 36, 767-780	3.3	108
186	Natural convection in metal foams with open cells. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 2452-2463	4.9	102

185	Analytical considerations of thermal radiation in cellular metal foams with open cells. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 929-940	4.9	92
184	Experimental investigations of porous materials in high temperature thermal energy storage systems. <i>Solar Energy</i> , 2011 , 85, 1371-1380	6.8	89
183	Thermal and rheological properties of microencapsulated phase change materials. <i>Renewable Energy</i> , 2011 , 36, 2959-2966	8.1	85
182	Experimental study of CaO/Ca(OH) ₂ in a fixed-bed reactor for thermochemical heat storage. <i>Applied Energy</i> , 2016 , 175, 277-284	10.7	80
181	Thermal and exergetic analysis of Metal Foam-enhanced Cascaded Thermal Energy Storage (MF-CTES). <i>International Journal of Heat and Mass Transfer</i> , 2013 , 58, 86-96	4.9	76
180	Effect of atmospheric water vapor on radiative cooling performance of different surfaces. <i>Solar Energy</i> , 2019 , 183, 218-225	6.8	64
179	Gas-Solid thermochemical heat storage reactors for high-temperature applications. <i>Energy</i> , 2017 , 130, 155-173	7.9	61
178	Thermo-mechanical analysis of ceramic encapsulated phase-change-material (PCM) particles. <i>Energy and Environmental Science</i> , 2011 , 4, 2117	35.4	57
177	Thermal performance of cascaded thermal storage with phase-change materials (PCMs). Part I: Steady cases. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 932-944	4.9	54
176	Thermodynamic analysis and optimization of cascaded latent heat storage system for energy efficient utilization. <i>Energy</i> , 2015 , 90, 1662-1673	7.9	53
175	Experimental study of pool boiling heat transfer on horizontal metallic foam surface with crossing and single-directional V-shaped groove in saturated water. <i>International Journal of Multiphase Flow</i> , 2012 , 41, 44-55	3.6	52
174	Parametric analysis of using PCM walls for heating loads reduction. <i>Energy and Buildings</i> , 2018 , 172, 328-336	7.3	50
173	Enhanced boiling heat transfer by gradient porous metals in saturated pure water and surfactant solutions. <i>Applied Thermal Engineering</i> , 2016 , 100, 68-77	5.8	49
172	Circulating fluidized bed heat recovery/storage and its potential to use coated phase-change-material (PCM) particles. <i>Applied Energy</i> , 2013 , 109, 505-513	10.7	49
171	First-principle study of CaO/Ca(OH) ₂ thermochemical energy storage system by Li or Mg cation doping. <i>Chemical Engineering Science</i> , 2014 , 117, 293-300	4.4	49
170	Pool boiling heat transfer on open-celled metallic foam sintered surface under saturation condition. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 3856-3867	4.9	47
169	Numerical study of natural convection in porous media (metals) using Lattice Boltzmann Method (LBM). <i>International Journal of Heat and Fluid Flow</i> , 2010 , 31, 925-934	2.4	47
168	Thermal performance of cascaded thermal storage with phase-change materials (PCMs). Part II: Unsteady cases. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 945-957	4.9	45

167	Modeling metal foam enhanced phase change heat transfer in thermal energy storage by using phase field method. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 170-181	4.9	45
166	Thermodynamic and kinetic study of the dehydration process of CaO/Ca(OH) ₂ thermochemical heat storage system with Li doping. <i>Chemical Engineering Science</i> , 2015 , 138, 86-92	4.4	42
165	Radiative behaviors of crystalline silicon nanowire and nanohole arrays for photovoltaic applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 133, 579-588	2.1	42
164	Numerical study of conjugated heat transfer in metal foam filled double-pipe. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 4899-4907	4.9	41
163	Thermal efficiency analysis of the cascaded latent heat/cold storage with multi-stage heat engine model. <i>Renewable Energy</i> , 2016 , 86, 228-237	8.1	39
162	Metasurface-Enabled Generation of Circularly Polarized Single Photons. <i>Advanced Materials</i> , 2020 , 32, e1907832	24	36
161	Analytical considerations on optimization of cascaded heat transfer process for thermal storage system with principles of thermodynamics. <i>Renewable Energy</i> , 2019 , 132, 826-845	8.1	36
160	Experimental study on pool boiling heat transfer in gradient metal foams. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 85, 824-829	4.9	33
159	Revisiting phonon-phonon scattering in single-layer graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	33
158	Technological challenges and industrial applications of CaCO ₃ /CaO based thermal energy storage system [A review]. <i>Solar Energy</i> , 2019 , 193, 618-636	6.8	33
157	Analytical considerations of slip flow and heat transfer through microfoams in mini/microchannels with asymmetric wall heat fluxes. <i>Applied Thermal Engineering</i> , 2016 , 93, 15-26	5.8	30
156	Dehydration/hydration of MgO/H ₂ O chemical thermal storage system. <i>Energy</i> , 2015 , 82, 611-618	7.9	28
155	Thermophysical properties of Ca(NO ₃) ₂ -NaNO ₃ -KNO ₃ mixtures for heat transfer and thermal storage. <i>Solar Energy</i> , 2017 , 146, 172-179	6.8	27
154	Thermal conductivity of single-layer MoS ₂ (1-x)Se _{2x} alloys from molecular dynamics simulations with a machine-learning-based interatomic potential. <i>Computational Materials Science</i> , 2019 , 165, 74-81	3.2	27
153	Effect of nanoparticle aggregation on the thermal radiation properties of nanofluids: an experimental and theoretical study. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 154, 119690	4.9	27
152	Microstructural effect on the radiative properties of YSZ thermal barrier coatings (TBCs). <i>International Journal of Heat and Mass Transfer</i> , 2014 , 73, 59-66	4.9	27
151	Thermal property investigation of aqueous suspensions of microencapsulated phase change material and carbon nanotubes as a novel heat transfer fluid. <i>Renewable Energy</i> , 2013 , 60, 433-438	8.1	27
150	Medium- and high-temperature latent and thermochemical heat storage using metals and metallic compounds as heat storage media: A technical review. <i>Applied Energy</i> , 2020 , 280, 115950	10.7	27

149	A new fractal model on fluid flow/heat/mass transport in complex porous structures. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 162, 120292	4.9	26
148	Heat storage and release performance analysis of CaCO ₃ /CaO thermal energy storage system after doping nano silica. <i>Solar Energy</i> , 2019 , 188, 619-630	6.8	24
147	Influences of nanoparticles on pool boiling heat transfer in porous metals. <i>Applied Thermal Engineering</i> , 2014 , 65, 34-41	5.8	24
146	Thermal analysis of exothermic process in a magnesium hydride reactor with porous metals. <i>Chemical Engineering Science</i> , 2013 , 98, 273-281	4.4	24
145	Thickness effect on pool boiling heat transfer of trapezoid-shaped copper foam fins. <i>Applied Thermal Engineering</i> , 2013 , 60, 359-370	5.8	24
144	Topological phonon polaritons in one-dimensional non-Hermitian silicon carbide nanoparticle chains. <i>Physical Review B</i> , 2018 , 98,	3.3	24
143	The effect of CO ₂ on Ca(OH) ₂ and Mg(OH) ₂ thermochemical heat storage systems. <i>Energy</i> , 2017 , 124, 114-123	7.9	23
142	Near-field radiative heat transfer in three-body systems with periodic structures. <i>Physical Review B</i> , 2019 , 99,	3.3	23
141	Experimental study on the thermodynamic performance of cascaded latent heat storage in the heat charging process. <i>Energy</i> , 2018 , 157, 690-706	7.9	23
140	Modeling radiative properties of air plasma sprayed thermal barrier coatings in the dependent scattering regime. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 920-928	4.9	22
139	Experimental observations and lattice Boltzmann method study of the electroviscous effect for liquid flow in microchannels. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 539-550	2	22
138	Experimental investigation of barium hydroxide octahydrate as latent heat storage materials. <i>Solar Energy</i> , 2019 , 177, 99-107	6.8	22
137	Molecular dynamics simulation of nanoparticle effect on melting enthalpy of paraffin phase change material. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 150, 119382	4.9	21
136	Analytical study of flow and heat transfer in an annular porous medium subject to asymmetrical heat fluxes. <i>Heat and Mass Transfer</i> , 2017 , 53, 2663-2676	2.2	20
135	Topological photonic states in one-dimensional dimerized ultracold atomic chains. <i>Physical Review A</i> , 2018 , 98,	2.6	20
134	Experimental correlation for pool boiling heat transfer on metallic foam surface and bubble cluster growth behavior on grooved array foam surface. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 77, 1169-1182	4.9	20
133	Pool boiling heat transfer of open-celled metal foams with V-shaped grooves for high pore densities. <i>Experimental Thermal and Fluid Science</i> , 2014 , 52, 128-138	3	20
132	Synthesis and characterization of a narrow size distribution nano phase change material emulsion for thermal energy storage. <i>Solar Energy</i> , 2017 , 147, 406-413	6.8	18

131	Thin films with disordered nanohole patterns for solar radiation absorbers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 158, 145-153	2.1	18
130	Experimental study on radiative properties of air plasma sprayed thermal barrier coatings. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 66, 695-698	4.9	18
129	An effectiveness study of enhanced heat transfer in phase change materials (PCMs). <i>International Journal of Heat and Mass Transfer</i> , 2013 , 60, 459-468	4.9	17
128	Development of granular thermochemical heat storage composite based on calcium oxide. <i>Renewable Energy</i> , 2020 , 147, 969-978	8.1	17
127	Parametric investigations of using a PCM curtain for energy efficient buildings. <i>Energy and Buildings</i> , 2015 , 94, 33-42	7	16
126	Enhanced heat spray cooling with a moving nozzle. <i>Applied Thermal Engineering</i> , 2018 , 141, 921-927	5.8	16
125	Topology optimization for heat transfer enhancement in thermochemical heat storage. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 154, 119785	4.9	15
124	Effect of dependent scattering on light absorption in highly scattering random media. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 125, 1069-1078	4.9	15
123	Numerical study of solid-liquid phase change by phase field method. <i>Computers and Fluids</i> , 2018 , 164, 94-101	2.8	14
122	Infrared radiative properties of EB-PVD thermal barrier coatings. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 94, 199-210	4.9	14
121	Design of metasurface polarizers based on two-dimensional cold atomic arrays. <i>Optics Express</i> , 2017 , 25, 18760-18773	3.3	14
120	Accounting for Buoyancy Effects in the Explicit Algebraic Stress Model: Homogeneous Turbulent Shear Flows. <i>Theoretical and Computational Fluid Dynamics</i> , 2002 , 15, 283-302	2.3	14
119	Tuning toroidal dipole resonances in dielectric metamolecules by an additional electric dipolar response. <i>Journal of Applied Physics</i> , 2019 , 125, 093102	2.5	13
118	Achieving a strongly negative scattering asymmetry factor in random media composed of dual-dipolar particles. <i>Physical Review A</i> , 2018 , 97,	2.6	13
117	Selective Thermophotovoltaic Emitter with Aperiodic Multilayer Structures Designed by Machine Learning. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2004-2013	6.1	13
116	Convective drying in thin hydrophobic porous media. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 112, 630-642	4.9	12
115	Mesosopic exploration on mass transfer in porous thermochemical heat storage materials. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 52-61	4.9	12
114	Microstructural effect on radiative scattering coefficient and asymmetry factor of anisotropic thermal barrier coatings. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 210, 116-126 ^{2.1}	2.1	12

113	Analytical considerations of flow boiling heat transfer in metal-foam filled tubes. <i>Heat and Mass Transfer</i> , 2012 , 48, 165-173	2.2	12
112	Impinging flame ignition and propagation visualisation using Schlieren and colour-enhanced stereo imaging techniques. <i>Fuel</i> , 2013 , 108, 177-183	7.1	12
111	Heat transfer of phase change materials (PCMs) in porous materials. <i>Frontiers in Energy</i> , 2011 , 5, 174-180	2.6	12
110	A three dimensional investigation of turbulent flow and heat transfer around sharp 180-deg turns in two-pass rib-roughened channels. <i>International Communications in Heat and Mass Transfer</i> , 1997 , 24, 587-596	5.8	12
109	SpinOrbit Controlled Excitation of Quantum Emitters in Hybrid Plasmonic Nanocircuits. <i>Advanced Optical Materials</i> , 2020 , 8, 2000854	8.1	12
108	Numerical investigation on the effective thermal conductivity of plasma sprayed zirconia coatings. <i>Ceramics International</i> , 2015 , 41, 14915-14923	5.1	11
107	Modeling the thermal radiation properties of thermal barrier coatings based on a random generation algorithm. <i>Ceramics International</i> , 2016 , 42, 9752-9761	5.1	11
106	Designing ultrabroadband absorbers based on Bloch theorem and optical topological transition. <i>Optics Letters</i> , 2017 , 42, 1879-1882	3	11
105	Time-resolved 3D investigation of the ignition process of a methane diffusion impinging flame. <i>Experimental Thermal and Fluid Science</i> , 2015 , 62, 78-84	3	11
104	Solidification analysis of a single particle with encapsulated phase change materials. <i>Applied Thermal Engineering</i> , 2013 , 51, 338-346	5.8	11
103	Experimental investigation of coflow effect on the ignition process of a methane jet diffusion flame. <i>Experimental Thermal and Fluid Science</i> , 2018 , 91, 184-196	3	11
102	Active tuning of directional scattering by combining magneto-optical effects and multipolar interferences. <i>Nanoscale</i> , 2018 , 10, 18282-18290	7.7	11
101	Experimental study on heat transfer of jet impingement with a moving nozzle. <i>Applied Thermal Engineering</i> , 2017 , 115, 682-691	5.8	10
100	Enhancing near-field heat transfer between composite structures through strongly coupled surface modes. <i>Physical Review B</i> , 2019 , 100,	3.3	10
99	Thermal conductivity of MoS ₂ /MoSe ₂ heterostructures: The role of lattice mismatch, interlayer rotation and species intermixing. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 143, 118583	4.9	10
98	Role of short-range order in manipulating light absorption in disordered media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018 , 35, 504	1.7	10
97	Analysis of thermally developing forced convection heat transfer in a porous medium under local thermal non-equilibrium condition: A circular tube with asymmetric entrance temperature. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 880-889	4.9	10
96	Nonequilibrium Thermal Response of Porous Media in Unsteady Heat Conduction With Sinusoidally Changing Boundary Temperature. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	10

95	Turbulence Modeling Effects on the Prediction of Equilibrium States of Buoyant Shear Flows. <i>Theoretical and Computational Fluid Dynamics</i> , 2001 , 14, 399-422	2.3	10
94	Pore network model of evaporation in porous media with continuous and discontinuous corner films. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	10
93	Investigating the effects of ZnO dopant on the thermodynamic and kinetic properties of CaCO ₃ /CaO TCES system. <i>Energy</i> , 2021 , 215, 119132	7.9	10
92	Near-field thermal radiative transfer in assembled spherical systems composed of core-shell nanoparticles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 219, 304-312	2.1	10
91	Experimental study of MgO/Mg(OH) ₂ thermochemical heat storage with direct heat transfer mode. <i>Applied Energy</i> , 2020 , 275, 115356	10.7	9
90	The energy efficiency of interfacial solar desalination. <i>Applied Energy</i> , 2021 , 302, 117581	10.7	9
89	The effect of dehydration temperatures on the performance of the CaO/Ca(OH) ₂ thermochemical heat storage system. <i>Energy</i> , 2019 , 186, 115837	7.9	8
88	Wideband tunable infrared topological plasmon polaritons in dimerized chains of doped-silicon nanoparticles. <i>Journal of Applied Physics</i> , 2020 , 127, 073106	2.5	8
87	Enhancement and Manipulation of Near-Field Radiative Heat Transfer Using an Intermediate Modulator. <i>Physical Review Applied</i> , 2020 , 13,	4.3	8
86	Investigation of bubble behavior in gradient porous media under pool boiling conditions. <i>International Journal of Multiphase Flow</i> , 2018 , 103, 85-93	3.6	8
85	Thermal conductivity of hexagonal Si, Ge, and Si _{1-x} Ge _x alloys from first-principles. <i>Journal of Applied Physics</i> , 2018 , 123, 185104	2.5	8
84	Three-dimensional investigation of the dynamics of a propane diffusion flame. <i>Fuel</i> , 2014 , 116, 448-454	7.1	8
83	THE DEPENDENT SCATTERING EFFECT ON RADIATIVE PROPERTIES OF MICRO/NANOSCALE DISCRETE DISORDERED MEDIA. <i>Annual Review of Heat Transfer</i> , 2020 , 23, 231-353	2.7	8
82	Three-Dimensional droplet splashing dynamics measurement with a stereoscopic shadowgraph system. <i>International Journal of Heat and Fluid Flow</i> , 2020 , 83, 108576	2.4	8
81	Ultracompact Energy Transfer in Anapole-based Metachains. <i>Nano Letters</i> , 2021 , 21, 6102-6110	11.5	8
80	Unified analyses and optimization for achieving perfect absorption of layered absorbers with ultrathin films. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 1098-1106	4.9	7
79	Compact mid-infrared broadband absorber based on hBN/metal metasurface. <i>International Journal of Thermal Sciences</i> , 2018 , 130, 192-199	4.1	7
78	Negative refraction in metamaterials based on dielectric spherical particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 214, 82-93	2.1	7

77	Polarization management based on dipolar interferences and lattice couplings. <i>Optics Express</i> , 2018 , 26, 7235-7252	3.3	7
76	Geometric Optics Approximation with Considering Interference for Reflection from Random Rough Surface. <i>Journal of Thermophysics and Heat Transfer</i> , 2013 , 27, 458-464	1.3	7
75	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	4.9	7
74	Thermal radiation and conduction in functionally graded thermal barrier coatings. Part I: Experimental study on radiative properties. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 134, 101-113	4.9	7
73	Efficient two-dimensional scalar fields reconstruction of laminar flames from infrared hyperspectral measurements with a machine learning approach. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 271, 107724	2.1	7
72	Multi-physics modeling of thermochemical heat storage with enhance heat transfer. <i>Applied Thermal Engineering</i> , 2021 , 198, 117508	5.8	7
71	Effect of metal particles in cermets on spectral selectivity. <i>Journal of Applied Physics</i> , 2017 , 121, 113105	2.5	6
70	Analysis of dependent scattering mechanism in hard-sphere Yukawa random media. <i>Journal of Applied Physics</i> , 2018 , 123, 223101	2.5	6
69	A schlieren motion estimation method for seedless velocimetry measurement. <i>Experimental Thermal and Fluid Science</i> , 2019 , 109, 109880	3	6
68	Lattice invisibility effect based on transverse Kerker scattering in 1D metalattices. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 495107	3	6
67	Evolution and Nonreciprocity of Loss-Induced Topological Phase Singularity Pairs.. <i>Physical Review Letters</i> , 2021 , 127, 266101	7.4	6
66	Near-resonant light transmission in two-dimensional dense cold atomic media with short-range positional correlations. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 1757	1.7	6
65	High-temperature phonon transport properties of SnSe from machine-learning interatomic potential. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	6
64	Machine learning-assisted soot temperature and volume fraction fields predictions in the ethylene laminar diffusion flames. <i>Optics Express</i> , 2021 , 29, 1678-1693	3.3	6
63	Optimal operation scheduling of a pump hydro storage system coupled with a wind farm. <i>IET Renewable Power Generation</i> , 2021 , 15, 173-192	2.9	6
62	Reconfigurable metalattices: Combining multipolar lattice resonances and magneto-optical effect in far and near fields. <i>Journal of Applied Physics</i> , 2019 , 126, 113105	2.5	5
61	Melting behaviour of differently-sized micro-particles in a pipe flow under constant heat flux. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 53, 64-70	5.8	5
60	Modelling the effect of binary phase composition on inward solidification of a particle. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 6766-6774	4.9	5

59	Leidenfrost temperature: Surface thermal diffusivity and effusivity effect. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 168, 120892	4.9	5
58	Directional off-Normal Photon Streaming from Hybrid Plasmon-Emitter Coupled Metasurfaces. <i>ACS Photonics</i> , 2020 , 7, 1111-1116	6.3	5
57	Reaction performance of CaCO ₃ /CaO thermochemical energy storage with TiO ₂ dopant and experimental study in a fixed-bed reactor. <i>Energy</i> , 2021 , 236, 121451	7.9	5
56	Monitoring anharmonic phonon transport across interfaces in one-dimensional lattice chains. <i>Physical Review E</i> , 2020 , 101, 022133	2.4	4
55	Thermal Transport in Nanoporous Yttria-Stabilized Zirconia by Molecular Dynamics Simulation. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2018 , 23, 38-44	0.6	4
54	Strong coupling between a plasmonic Fano resonance and anapole states in a metallic-dielectric antenna. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 445102	3	4
53	Natural Convection Investigations in Porous Phase Change Materials. <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 769-772	0.8	4
52	Terahertz topological plasmon polaritons for robust temperature sensing. <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
51	Strain Engineering for Tailored Carrier Transport and Thermoelectric Performance in Mixed Halide Perovskites CsPb(I _{1-x} Br _x) ₃ . <i>ACS Applied Energy Materials</i> ,	6.1	4
50	Micro/Nanostructures for Far-Field Thermal Emission Control: An Overview. <i>ES Energy & Environments</i> , 2019 ,	2.9	4
49	Molecular dynamics simulation of thermal and phonon transport characteristics of nanocomposite phase change material. <i>Journal of Molecular Liquids</i> , 2021 , 329, 115448	6	4
48	Grading absorption and enhancement in silicon nanowire arrays with thin blocks. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 194, 7-16	2.1	3
47	Design and analysis of Salisbury screens and Jaumann absorbers for solar radiation absorption. <i>Frontiers in Energy</i> , 2018 , 12, 158-168	2.6	3
46	Structural correlations and dependent scattering mechanism on the radiative properties of random media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 218, 72-85	2.1	3
45	Design principles based on analysis in R ³ (H ³)space to achieve near-perfect full-spectrum volumetric solar-thermal conversion. <i>Solar Energy</i> , 2019 , 188, 533-544	6.8	3
44	A novel selective thermophotovoltaic emitter based on multipole resonances. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 182, 122039	4.9	3
43	Thermal radiation and conduction in functionally graded thermal barrier coatings. Part II: Experimental thermal conductivities and heat transfer modeling. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 134, 166-174	4.9	3
42	Numerical analyses and optimization of tubular thermochemical heat storage reactors using axisymmetric thermal lattice Boltzmann model. <i>Chemical Engineering Science</i> , 2019 , 195, 737-747	4.4	3

41	Transient simulation and thermodynamic analysis of pumped thermal electricity storage based on packed-bed latent heat/cold stores. <i>Renewable Energy</i> , 2021 , 174, 939-951	8.1	3
40	GPU_PBTE: an efficient solver for three and four phonon scattering rates on graphics processing units. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	3
39	DFT Modeling of CO Adsorption and HCOO Group Conversion in Anatase Au-TiO-Based Photocatalysis.. <i>ACS Omega</i> , 2022 , 7, 7179-7189	3.9	3
38	Polarized light transport in anisotropic media composed of ellipsoids: Influence of structural anisotropy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 245, 106854	2.1	2
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