

Changying Zhao

List of Publications by Year in Descending Order

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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	Investigation of hydration/dehydration processes in a fluidized bed reactor using MgO/Mg(OH) ₂ thermochemical energy storage system. <i>Solar Energy</i> , 2022 , 231, 630-645	6.8	0
201	Pores integrated fractal (PIF) analysis on transportation in porous media considering spatial distribution of pores and genuine tortuosity. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 187, 122528	4.9	1
200	Active control and enhancement of near-field heat transfer between dissimilar materials by strong coupling effects. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 188, 122588	4.9	2
199	Machine learning applied to the retrieval of three-dimensional scalar fields of laminar flames from hyperspectral measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022 , 279, 108047	2.1	2
198	Thermal conductivity enhancement of phase change material with charged nanoparticle: A molecular dynamics simulation. <i>Energy</i> , 2022 , 242, 123033	7.9	1
197	Near-infrared nonreciprocal thermal emitters induced by asymmetric embedded eigenstates. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 186, 122435	4.9	2
196	A novel selective thermophotovoltaic emitter based on multipole resonances. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 182, 122039	4.9	3
195	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
194	Sintering mechanism of calcium oxide/calcium carbonate during thermochemical heat storage process. <i>Chemical Engineering Journal</i> , 2022 , 428, 131229	14.7	2
193	DFT Modeling of CO Adsorption and HCOO Group Conversion in Anatase Au-TiO ₂ -Based Photocatalysis.. <i>ACS Omega</i> , 2022 , 7, 7179-7189	3.9	3
192	Multi-criteria thermodynamic analysis of pumped-thermal electricity storage with thermal integration and application in electric peak shaving of coal-fired power plant. <i>Energy Conversion and Management</i> , 2022 , 258, 115502	10.6	0
191	Boiling on nano-porous structures: Theoretical analysis and molecular dynamics simulations. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 191, 122848	4.9	
190	High thermoelectric performance in metastable phase of silicon: A first-principles study. <i>Applied Physics Letters</i> , 2022 , 120, 163901	3.4	0
189	Volumetric particle tracking velocimetry with improved algorithms using a two-view shadowgraph system. <i>Measurement Science and Technology</i> , 2022 , 33, 085301	2	0
188	U-Net applied to retrieve two-dimensional temperature and CO ₂ concentration fields of laminar diffusion flames. <i>Fuel</i> , 2022 , 324, 124447	7.1	1
187	Nanocomposite coatings with plasmonic structural colors for subambient daytime radiative cooling. <i>Solar Energy</i> , 2022 , 240, 211-224	6.8	1
186	Evolution and Nonreciprocity of Loss-Induced Topological Phase Singularity Pairs.. <i>Physical Review Letters</i> , 2021 , 127, 266101	7.4	6

185	Transverse Kerker scattering governed by two nondegenerate electric dipoles and its application in arbitrary beam steering. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 262, 107514	2.1	1
184	Leidenfrost temperature: Surface thermal diffusivity and effusivity effect. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 168, 120892	4.9	5
183	A spatial-temporal algorithm for three-dimensional particle tracking velocimetry using two-view systems. <i>Measurement Science and Technology</i> , 2021 , 32, 065011	2	2
182	Experimental investigation of transient ignition dynamics of hydrogen enriched methane diffusion impinging flames. <i>Fuel</i> , 2021 , 290, 120027	7.1	0
181	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
180	Ultrannarrow and Wavelength-Scalable Thermal Emitters Driven by High-Order Antiferromagnetic Resonances in Dielectric Nanogratings. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25306-25315	9.5	1
179	A comparative study of the immiscibility effect on liquid drop impacting onto very thin films. <i>Experiments in Fluids</i> , 2021 , 62, 1	2.5	2
178	Near field radiative heat transfer in asymmetric three-grating systems. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 171, 121124	4.9	1
177	High-temperature phonon transport properties of SnSe from machine-learning interatomic potential. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	6
176	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
175	Numerical Investigation of Thermally Developing Non-Darcy Forced Convection in a Porous Circular Duct with Asymmetric Entrance Temperature Under LTNE Condition. <i>Transport in Porous Media</i> , 2021 , 136, 639-655	3.1	1
174	Topological quantum optical states in quasiperiodic cold atomic chains. <i>Physical Review A</i> , 2021 , 103,	2.6	2
173	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
172	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
171	Efficient and antifouling interfacial solar desalination guided by a transient salt capacitance model. <i>Cell Reports Physical Science</i> , 2021 , 2, 100330	6.1	1
170	An Optimization and Parametric Study of a Schlieren Motion Estimation Method. <i>Flow, Turbulence and Combustion</i> , 2021 , 107, 609-630	2.5	0
169	Selective Thermophotovoltaic Emitter with Aperiodic Multilayer Structures Designed by Machine Learning. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2004-2013	6.1	13
168	A machine learning based full-spectrum correlated k-distribution model for nonhomogeneous gas-soot mixtures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 268, 107628	2.1	2

167	Ultracompact Energy Transfer in Anapole-based Metachains. <i>Nano Letters</i> , 2021 , 21, 6102-6110	11.5	8
166	Pore-Scale Study of Buoyancy-Driven Gas Bubble Migration, Breakup, Trapping, and Coalescence in the Near Injection Region of Liquid Saturated Porous Media. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12419-12428	3.9	2
165	Molecular Insights into Water Vapor Adsorption and Interfacial Moisture Stability of Hybrid Perovskites for Robust Optoelectronics. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 175, 121334	4.9	1
164	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
163	Distribution of liquid flow in a pore network during evaporation. <i>Physical Review E</i> , 2021 , 104, 025107	2.4	1
162	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
161	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
160	Interferences and localization in disordered media with anisotropic structural correlations. <i>Journal of Applied Physics</i> , 2021 , 130, 133101	2.5	0
159	The energy efficiency of interfacial solar desalination. <i>Applied Energy</i> , 2021 , 302, 117581	10.7	9
158	Multi-physics modeling of thermochemical heat storage with enhance heat transfer. <i>Applied Thermal Engineering</i> , 2021 , 198, 117508	5.8	7
157	Polarization signatures of structural anisotropy for radiative transfer in fibrous materials. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 276, 107928	2.1	
156	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
155	Scattering-type multi-probe scanning thermal microscope based on near-field thermal radiation. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 181, 121869	4.9	0
154	Experimental study on the effect of the liquid/surface thermal properties on droplet impact. <i>Thermal Science</i> , 2021 , 25, 705-716	1.2	0
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	Monitoring anharmonic phonon transport across interfaces in one-dimensional lattice chains. <i>Physical Review E</i> , 2020 , 101, 022133	2.4	4
151	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
150	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

149	Metasurface-Enabled Generation of Circularly Polarized Single Photons. <i>Advanced Materials</i> , 2020 , 32, e1907832	24	36
148	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
147	Enhancement and Manipulation of Near-Field Radiative Heat Transfer Using an Intermediate Modulator. <i>Physical Review Applied</i> , 2020 , 13,	4.3	8
146	Pore network model of evaporation in porous media with continuous and discontinuous corner films. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	10
145	Capillary instability induced gas-liquid displacement in porous media: Experimental observation and pore network model. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	2
144	Terahertz topological plasmon polaritons for robust temperature sensing. <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
143	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
142	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
141	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
140	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
139	Conduction paths of backbones for thermal enhancement of nanocomposite phase change materials. <i>International Journal of Energy Research</i> , 2020 , 44, 1062-1077	4.5	2
138	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
137	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
136	SpinOrbit Controlled Excitation of Quantum Emitters in Hybrid Plasmonic Nanocircuits. <i>Advanced Optical Materials</i> , 2020 , 8, 2000854	8.1	12
135	Development of granular thermochemical heat storage composite based on calcium oxide. <i>Renewable Energy</i> , 2020 , 147, 969-978	8.1	17
134	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
133	Directional off-Normal Photon Streaming from Hybrid Plasmon-Emitter Coupled Metasurfaces. <i>ACS Photonics</i> , 2020 , 7, 1111-1116	6.3	5
132	Enhancing near-field heat transfer between composite structures through strongly coupled surface modes. <i>Physical Review B</i> , 2019 , 100,	3.3	10

131	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
130	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
129	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
128	Near-field radiative heat transfer in three-body systems with periodic structures. <i>Physical Review B</i> , 2019 , 99,	3.3	23
127	Mesoscopic 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
126	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
125	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
124	Effect of atmospheric water vapor on radiative cooling performance of different surfaces. <i>Solar Energy</i> , 2019 , 183, 218-225	6.8	64
123	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
122	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
121	Revisiting phonon-phonon scattering in single-layer graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	33
120	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
119	A schlieren motion estimation method for seedless velocimetry measurement. <i>Experimental Thermal and Fluid Science</i> , 2019 , 109, 109880	3	6
118	Design principles based on analysis in R ³ (H ¹) space to achieve near-perfect full-spectrum volumetric solar-thermal conversion. <i>Solar Energy</i> , 2019 , 188, 533-544	6.8	3
117	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
116	Lattice invisibility effect based on transverse Kerker scattering in 1D metalattices. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 495107	3	6
115	Micro/Nanostructures for Far-Field Thermal Emission Control: An Overview. <i>ES Energy & Environments</i> , 2019 ,	2.9	4
114	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

113	Experimental investigation of barium hydroxide octahydrate as latent heat storage materials. <i>Solar Energy</i> , 2019 , 177, 99-107	6.8	22
112	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
111	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
110	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
109	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
108	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
107	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
106	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
105	Compact mid-infrared broadband absorber based on hBN/metal metasurface. <i>International Journal of Thermal Sciences</i> , 2018 , 130, 192-199	4.1	7
104	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
103	Numerical study of solid-liquid phase change by phase field method. <i>Computers and Fluids</i> , 2018 , 164, 94-101	2.8	14
102	Polarization management based on dipolar interferences and lattice couplings. <i>Optics Express</i> , 2018 , 26, 7235-7252	3.3	7
101	Topological photonic states in one-dimensional dimerized ultracold atomic chains. <i>Physical Review A</i> , 2018 , 98,	2.6	20
100	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
99	Parametric analysis of using PCM walls for heating loads reduction. <i>Energy and Buildings</i> , 2018 , 172, 328-336	3.36	50
98	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
97	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
96	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

95	Enhanced heat spray cooling with a moving nozzle. <i>Applied Thermal Engineering</i> , 2018 , 141, 921-927	5.8	16
94	Analysis of dependent scattering mechanism in hard-sphere Yukawa random media. <i>Journal of Applied Physics</i> , 2018 , 123, 223101	2.5	6
93	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
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	Topological phonon polaritons in one-dimensional non-Hermitian silicon carbide nanoparticle chains. <i>Physical Review B</i> , 2018 , 98,	3.3	24
90	Active tuning of directional scattering by combining magneto-optical effects and multipolar interferences. <i>Nanoscale</i> , 2018 , 10, 18282-18290	7.7	11
89	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
88	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
87	Experimental study on heat transfer of jet impingement with a moving nozzle. <i>Applied Thermal Engineering</i> , 2017 , 115, 682-691	5.8	10
86	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
85	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
84	Gas-solid thermochemical heat storage reactors for high-temperature applications. <i>Energy</i> , 2017 , 130, 155-173	7.9	61
83	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
82	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
81	Convective drying in thin hydrophobic porous media. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 112, 630-642	4.9	12
80	Effect of metal particles in cermets on spectral selectivity. <i>Journal of Applied Physics</i> , 2017 , 121, 113105	2.5	6
79	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
78	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

77	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
76	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
75	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
74	Design of metasurface polarizers based on two-dimensional cold atomic arrays. <i>Optics Express</i> , 2017 , 25, 18760-18773	3.3	14
73	Designing ultrabroadband absorbers based on Bloch theorem and optical topological transition. <i>Optics Letters</i> , 2017 , 42, 1879-1882	3	11
72	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
71	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
70	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
69	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
68	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
67	Predicting radiative transport properties of plasma sprayed porous ceramics. <i>Journal of Applied Physics</i> , 2016 , 119, 125110	2.5	2
66	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
65	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
64	Parametric investigations of using a PCM curtain for energy efficient buildings. <i>Energy and Buildings</i> , 2015 , 94, 33-42	7	16
63	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
62	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
61	Numerical investigation on the effective thermal conductivity of plasma sprayed zirconia coatings. <i>Ceramics International</i> , 2015 , 41, 14915-14923	5.1	11
60	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

59	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
58	Thermodynamic analysis and optimization of cascaded latent heat storage system for energy efficient utilization. <i>Energy</i> , 2015 , 90, 1662-1673	7.9	53
57	Dehydration/hydration of MgO/H ₂ O chemical thermal storage system. <i>Energy</i> , 2015 , 82, 611-618	7.9	28
56	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
55	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
54	Influences of nanoparticles on pool boiling heat transfer in porous metals. <i>Applied Thermal Engineering</i> , 2014 , 65, 34-41	5.8	24
53	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
52	Three-dimensional investigation of the dynamics of a propane diffusion flame. <i>Fuel</i> , 2014 , 116, 448-454	7.1	8
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	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
43	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
42	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

41	Impinging flame ignition and propagation visualisation using Schlieren and colour-enhanced stereo imaging techniques. <i>Fuel</i> , 2013 , 108, 177-183	7.1	12
40	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
39	Analytical considerations of light transport in nanostructured homogeneous/inhomogeneous thin films. <i>Thin Solid Films</i> , 2013 , 542, 204-209	2.2	
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