Changying Zhao

List of Publications by Year in descending order

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		44069	31849
209	11,556	48	101
papers	citations	h-index	g-index
211	211	211	7702
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Review on thermal energy storage with phase change materials (PCMs) in building applications. Applied Energy, 2012, 92, 593-605.	10.1	1,378
2	A review of solar collectors and thermal energy storage in solar thermal applications. Applied Energy, 2013, 104, 538-553.	10.1	1,330
3	Heat transfer enhancement for thermal energy storage using metal foams embedded within phase change materials (PCMs). Solar Energy, 2010, 84, 1402-1412.	6.1	612
4	Review on thermal transport in high porosity cellular metal foams with open cells. International Journal of Heat and Mass Transfer, 2012, 55, 3618-3632.	4.8	437
5	Review on microencapsulated phase change materials (MEPCMs): Fabrication, characterization and applications. Renewable and Sustainable Energy Reviews, 2011, 15, 3813-3832.	16.4	397
6	A numerical investigation of heat transfer in phase change materials (PCMs) embedded in porous metals. Energy, 2011, 36, 5539-5546.	8.8	369
7	Double-layer nanoparticle-based coatings for efficient terrestrial radiative cooling. Solar Energy Materials and Solar Cells, 2017, 168, 78-84.	6.2	356
8	Thermal analysis on metal-foam filled heat exchangers. Part I: Metal-foam filled pipes. International Journal of Heat and Mass Transfer, 2006, 49, 2751-2761.	4.8	304
9	Experimental investigations on heat transfer in phase change materials (PCMs) embedded in porous materials. Applied Thermal Engineering, 2011, 31, 970-977.	6.0	286
10	The temperature dependence of effective thermal conductivity of open-celled steel alloy foams. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 367, 123-131.	5.6	177
11	Analysis of microchannel heat sinks for electronics cooling. International Journal of Heat and Mass Transfer, 2002, 45, 4857-4869.	4.8	163
12	Thermal analysis on metal-foam filled heat exchangers. Part II: Tube heat exchangers. International Journal of Heat and Mass Transfer, 2006, 49, 2762-2770.	4.8	163
13	Thermal radiation in ultralight metal foams with open cells. International Journal of Heat and Mass Transfer, 2004, 47, 2927-2939.	4.8	157
14	Synthesis, characterization and thermal properties of novel nanoencapsulated phase change materials for thermal energy storage. Solar Energy, 2012, 86, 1149-1154.	6.1	142
15	Convective heat dissipation with lattice-frame materials. Mechanics of Materials, 2004, 36, 767-780.	3.2	135
16	Thermal Transport in High Porosity Cellular Metal Foams. Journal of Thermophysics and Heat Transfer, 2004, 18, 309-317.	1.6	135
17	Natural convection in metal foams with open cells. International Journal of Heat and Mass Transfer, 2005, 48, 2452-2463.	4.8	120
18	Experimental study of CaO/Ca(OH)2 in a fixed-bed reactor for thermochemical heat storage. Applied Energy, 2016, 175, 277-284.	10.1	119

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19	Experimental investigations of porous materials in high temperature thermal energy storage systems. Solar Energy, 2011, 85, 1371-1380.	6.1	109
20	Effect of atmospheric water vapor on radiative cooling performance of different surfaces. Solar Energy, 2019, 183, 218-225.	6.1	102
21	Analytical considerations of thermal radiation in cellular metal foams with open cells. International Journal of Heat and Mass Transfer, 2008, 51, 929-940.	4.8	100
22	Thermal and rheological properties of microencapsulated phase change materials. Renewable Energy, 2011, 36, 2959-2966.	8.9	100
23	Thermal and exergetic analysis of Metal Foam-enhanced Cascaded Thermal Energy Storage (MF-CTES). International Journal of Heat and Mass Transfer, 2013, 58, 86-96.	4.8	96
24	Gas–solid thermochemical heat storage reactors for high-temperature applications. Energy, 2017, 130, 155-173.	8.8	93
25	Medium- and high-temperature latent and thermochemical heat storage using metals and metallic compounds as heat storage media: A technical review. Applied Energy, 2020, 280, 115950.	10.1	81
26	Parametric analysis of using PCM walls for heating loads reduction. Energy and Buildings, 2018, 172, 328-336.	6.7	76
27	Metasurfaceâ€Enabled Generation of Circularly Polarized Single Photons. Advanced Materials, 2020, 32, e1907832.	21.0	76
28	Thermal performance of cascaded thermal storage with phase-change materials (PCMs). Part I: Steady cases. International Journal of Heat and Mass Transfer, 2017, 106, 932-944.	4.8	73
29	Modeling metal foam enhanced phase change heat transfer in thermal energy storage by using phase field method. International Journal of Heat and Mass Transfer, 2016, 99, 170-181.	4.8	72
30	Revisiting phonon-phonon scattering in single-layer graphene. Physical Review B, 2019, 100, .	3.2	71
31	Thermo-mechanical analysis of ceramic encapsulated phase-change-material (PCM) particles. Energy and Environmental Science, 2011, 4, 2117.	30.8	68
32	Experimental study of pool boiling heat transfer on horizontal metallic foam surface with crossing and single-directional V-shaped groove in saturated water. International Journal of Multiphase Flow, 2012, 41, 44-55.	3.4	68
33	Thermodynamic analysis and optimization of cascaded latent heat storage system for energy efficient utilization. Energy, 2015, 90, 1662-1673.	8.8	68
34	Technological challenges and industrial applications of CaCO3/CaO based thermal energy storage system – A review. Solar Energy, 2019, 193, 618-636.	6.1	67
35	Numerical study of natural convection in porous media (metals) using Lattice Boltzmann Method (LBM). International Journal of Heat and Fluid Flow, 2010, 31, 925-934.	2.4	66
36	First-principle study of CaO/Ca(OH)2 thermochemical energy storage system by Li or Mg cation doping. Chemical Engineering Science, 2014, 117, 293-300.	3.8	66

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37	Effect of nanoparticle aggregation on the thermal radiation properties of nanofluids: an experimental and theoretical study. International Journal of Heat and Mass Transfer, 2020, 154, 119690.	4.8	63
38	Pool boiling heat transfer on open-celled metallic foam sintered surface under saturation condition. International Journal of Heat and Mass Transfer, 2011, 54, 3856-3867.	4.8	62
39	Thermodynamic and kinetic study of the dehydration process of CaO/Ca(OH) 2 thermochemical heat storage system with Li doping. Chemical Engineering Science, 2015, 138, 86-92.	3.8	61
40	The energy efficiency of interfacial solar desalination. Applied Energy, 2021, 302, 117581.	10.1	60
41	Circulating fluidized bed heat recovery/storage and its potential to use coated phase-change-material (PCM) particles. Applied Energy, 2013, 109, 505-513.	10.1	59
42	Enhanced boiling heat transfer by gradient porous metals in saturated pure water and surfactant solutions. Applied Thermal Engineering, 2016, 100, 68-77.	6.0	59
43	Thermal performance of cascaded thermal storage with phase-change materials (PCMs). Part II: Unsteady cases. International Journal of Heat and Mass Transfer, 2017, 106, 945-957.	4.8	58
44	Radiative behaviors of crystalline silicon nanowire and nanohole arrays for photovoltaic applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 579-588.	2.3	55
45	Numerical study of conjugated heat transfer in metal foam filled double-pipe. International Journal of Heat and Mass Transfer, 2010, 53, 4899-4907.	4.8	54
46	Experimental study on pool boiling heat transfer in gradient metal foams. International Journal of Heat and Mass Transfer, 2015, 85, 824-829.	4.8	54
47	Analytical considerations on optimization of cascaded heat transfer process for thermal storage system with principles of thermodynamics. Renewable Energy, 2019, 132, 826-845.	8.9	54
48	Heat storage and release performance analysis of CaCO3/CaO thermal energy storage system after doping nano silica. Solar Energy, 2019, 188, 619-630.	6.1	53
49	Thermal efficiency analysis of the cascaded latent heat/cold storage with multi-stage heat engine model. Renewable Energy, 2016, 86, 228-237.	8.9	51
50	Thermal conductivity of single-layer MoS2(1â^'x)Se2x alloys from molecular dynamics simulations with a machine-learning-based interatomic potential. Computational Materials Science, 2019, 165, 74-81.	3.0	46
51	Selective Thermophotovoltaic Emitter with Aperiodic Multilayer Structures Designed by Machine Learning. ACS Applied Energy Materials, 2021, 4, 2004-2013.	5.1	43
52	Evolution and Nonreciprocity of Loss-Induced Topological Phase Singularity Pairs. Physical Review Letters, 2021, 127, 266101.	7.8	42
53	Experimental study on the thermodynamic performance of cascaded latent heat storage in the heat charging process. Energy, 2018, 157, 690-706.	8.8	41
54	Molecular dynamics simulation of nanoparticle effect on melting enthalpy of paraffin phase change material. International Journal of Heat and Mass Transfer, 2020, 150, 119382.	4.8	41

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55	Microstructural effect on the radiative properties of YSZ thermal barrier coatings (TBCs). International Journal of Heat and Mass Transfer, 2014, 73, 59-66.	4.8	39
56	Thermophysical properties of Ca(NO3)2-NaNO3-KNO3 mixtures for heat transfer and thermal storage. Solar Energy, 2017, 146, 172-179.	6.1	39
57	Topology optimization for heat transfer enhancement in thermochemical heat storage. International Journal of Heat and Mass Transfer, 2020, 154, 119785.	4.8	39
58	Topological phonon polaritons in one-dimensional non-Hermitian silicon carbide nanoparticle chains. Physical Review B, 2018, 98, .	3.2	38
59	Experimental correlation for pool boiling heat transfer on metallic foam surface and bubble cluster growth behavior on grooved array foam surface. International Journal of Heat and Mass Transfer, 2014, 77, 1169-1182.	4.8	37
60	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
61	Analytical considerations of slip flow and heat transfer through microfoams in mini/microchannels with asymmetric wall heat fluxes. Applied Thermal Engineering, 2016, 93, 15-26.	6.0	36
62	Near-field radiative heat transfer in three-body systems with periodic structures. Physical Review B, 2019, 99, .	3.2	35
63	Thermal property investigation of aqueous suspensions of microencapsulated phase change material and carbon nanotubes as a novel heat transfer fluid. Renewable Energy, 2013, 60, 433-438.	8.9	34
64	Thermal analysis of exothermic process in a magnesium hydride reactor with porous metals. Chemical Engineering Science, 2013, 98, 273-281.	3.8	34
65	Dehydration/hydration of MgO/H2O chemical thermal storage system. Energy, 2015, 82, 611-618.	8.8	34
66	The effect of CO2 on Ca(OH)2 and Mg(OH)2 thermochemical heat storage systems. Energy, 2017, 124, 114-123.	8.8	34
67	Topological photonic states in one-dimensional dimerized ultracold atomic chains. Physical Review A, 2018, 98, .	2.5	34
68	Experimental investigation of barium hydroxide octahydrate as latent heat storage materials. Solar Energy, 2019, 177, 99-107.	6.1	32
69	Influences of nanoparticles on pool boiling heat transfer in porous metals. Applied Thermal Engineering, 2014, 65, 34-41.	6.0	31
70	Thickness effect on pool boiling heat transfer of trapezoid-shaped copper foam fins. Applied Thermal Engineering, 2013, 60, 359-370.	6.0	30
71	Modeling radiative properties of air plasma sprayed thermal barrier coatings in the dependent scattering regime. International Journal of Heat and Mass Transfer, 2015, 89, 920-928.	4.8	30
72	Investigating the effects of ZnO dopant on the thermodynamic and kinetic properties of CaCO3/CaO TCES system. Energy, 2021, 215, 119132.	8.8	30

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73	Thermal conductivity enhancement of phase change material with charged nanoparticle: A molecular dynamics simulation. Energy, 2022, 242, 123033.	8.8	30
74	Synthesis and characterization of a narrow size distribution nano phase change material emulsion for thermal energy storage. Solar Energy, 2017, 147, 406-413.	6.1	29
75	Sintering mechanism of calcium oxide/calcium carbonate during thermochemical heat storage process. Chemical Engineering Journal, 2022, 428, 131229.	12.7	29
76	Parametric investigations of using a PCM curtain for energy efficient buildings. Energy and Buildings, 2015, 94, 33-42.	6.7	28
77	Analytical study of flow and heat transfer in an annular porous medium subject to asymmetrical heat fluxes. Heat and Mass Transfer, 2017, 53, 2663-2676.	2.1	28
78	Development of granular thermochemical heat storage composite based on calcium oxide. Renewable Energy, 2020, 147, 969-978.	8.9	28
79	Experimental study on radiative properties of air plasma sprayed thermal barrier coatings. International Journal of Heat and Mass Transfer, 2013, 66, 695-698.	4.8	27
80	Pool boiling heat transfer of open-celled metal foams with V-shaped grooves for high pore densities. Experimental Thermal and Fluid Science, 2014, 52, 128-138.	2.7	27
81	Reaction performance of CaCO3/CaO thermochemical energy storage with TiO2 dopant and experimental study in a fixed-bed reactor. Energy, 2021, 236, 121451.	8.8	27
82	Experimental observations and lattice Boltzmann method study of the electroviscous effect for liquid flow in microchannels. Journal of Micromechanics and Microengineering, 2007, 17, 539-550.	2.6	25
83	Enhancing near-field heat transfer between composite structures through strongly coupled surface modes. Physical Review B, 2019, 100, .	3.2	25
84	Thermal radiation and conduction in functionally graded thermal barrier coatings. Part I: Experimental study on radiative properties. International Journal of Heat and Mass Transfer, 2019, 134, 101-113.	4.8	25
85	Infrared radiative properties of EB-PVD thermal barrier coatings. International Journal of Heat and Mass Transfer, 2016, 94, 199-210.	4.8	24
86	High-temperature phonon transport properties of SnSe from machine-learning interatomic potential. Journal of Physics Condensed Matter, 2021, 33, 405401.	1.8	24
87	Pore network model of evaporation in porous media with continuous and discontinuous corner films. Physical Review Fluids, 2020, 5, .	2.5	24
88	Convective drying in thin hydrophobic porous media. International Journal of Heat and Mass Transfer, 2017, 112, 630-642.	4.8	23
89	Multi-physics modeling of thermochemical heat storage with enhance heat transfer. Applied Thermal Engineering, 2021, 198, 117508.	6.0	23
90	Modeling the thermal radiation properties of thermal barrier coatings based on a random generation algorithm. Ceramics International, 2016, 42, 9752-9761.	4.8	22

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91	An effectiveness study of enhanced heat transfer in phase change materials (PCMs). International Journal of Heat and Mass Transfer, 2013, 60, 459-468.	4.8	21
92	Spin–Orbit Controlled Excitation of Quantum Emitters in Hybrid Plasmonic Nanocircuits. Advanced Optical Materials, 2020, 8, 2000854.	7.3	21
93	Accounting for Buoyancy Effects in the Explicit Algebraic Stress Model: Homogeneous Turbulent Shear Flows. Theoretical and Computational Fluid Dynamics, 2002, 15, 283-302.	2.2	20
94	Thin films with disordered nanohole patterns for solar radiation absorbers. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 158, 145-153.	2.3	20
95	Investigation of bubble behavior in gradient porous media under pool boiling conditions. International Journal of Multiphase Flow, 2018, 103, 85-93.	3.4	20
96	Numerical study of solid-liquid phase change by phase field method. Computers and Fluids, 2018, 164, 94-101.	2.5	20
97	Enhanced heat spray cooling with a moving nozzle. Applied Thermal Engineering, 2018, 141, 921-927.	6.0	20
98	Molecular dynamics simulation of thermal and phonon transport characteristics of nanocomposite phase change material. Journal of Molecular Liquids, 2021, 329, 115448.	4.9	20
99	Transient simulation and thermodynamic analysis of pumped thermal electricity storage based on packed-bed latent heat/cold stores. Renewable Energy, 2021, 174, 939-951.	8.9	20
100	Active control and enhancement of near-field heat transfer between dissimilar materials by strong coupling effects. International Journal of Heat and Mass Transfer, 2022, 188, 122588.	4.8	19
101	Designing ultrabroadband absorbers based on Bloch theorem and optical topological transition. Optics Letters, 2017, 42, 1879.	3.3	18
102	Achieving a strongly negative scattering asymmetry factor in random media composed of dual-dipolar particles. Physical Review A, 2018, 97, .	2.5	18
103	Microstructural effect on radiative scattering coefficient and asymmetry factor of anisotropic thermal barrier coatings. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 116-126.	2.3	18
104	Effect of dependent scattering on light absorption in highly scattering random media. International Journal of Heat and Mass Transfer, 2018, 125, 1069-1078.	4.8	18
105	Ultracompact Energy Transfer in Anapole-based Metachains. Nano Letters, 2021, 21, 6102-6110.	9.1	18
106	Efficient two-dimensional scalar fields reconstruction of laminar flames from infrared hyperspectral measurements with a machine learning approach. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107724.	2.3	18
107	Experimental study on heat transfer of jet impingement with a moving nozzle. Applied Thermal Engineering, 2017, 115, 682-691.	6.0	17
108	Near-field thermal radiative transfer in assembled spherical systems composed of core-shell nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 219, 304-312.	2.3	17

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109	Thermal conductivity of MoS2/MoSe2 heterostructures: The role of lattice mismatch, interlayer rotation and species intermixing. International Journal of Heat and Mass Transfer, 2019, 143, 118583.	4.8	17
110	Experimental study of MgO/Mg(OH)2 thermochemical heat storage with direct heat transfer mode. Applied Energy, 2020, 275, 115356.	10.1	17
111	Enhancement and Manipulation of Near-Field Radiative Heat Transfer Using an Intermediate Modulator. Physical Review Applied, 2020, 13, .	3.8	17
112	Directional off-Normal Photon Streaming from Hybrid Plasmon-Emitter Coupled Metasurfaces. ACS Photonics, 2020, 7, 1111-1116.	6.6	17
113	Nanocomposite coatings with plasmonic structural colors for subambient daytime radiative cooling. Solar Energy, 2022, 240, 211-224.	6.1	17
114	Design of metasurface polarizers based on two-dimensional cold atomic arrays. Optics Express, 2017, 25, 18760.	3.4	16
115	THE DEPENDENT SCATTERING EFFECT ON RADIATIVE PROPERTIES OF MICRO/NANOSCALE DISCRETE DISORDERED MEDIA. Annual Review of Heat Transfer, 2020, 23, 231-353.	1.0	16
116	Strain Engineering for Tailored Carrier Transport and Thermoelectric Performance in Mixed Halide Perovskites CsPb(I _{1–<i>x</i>} Br _{<i>x</i>}) ₃ . ACS Applied Energy Materials, 2021, 4, 14508-14519.	5.1	16
117	Multi-criteria thermodynamic analysis of pumped-thermal electricity storage with thermal integration and application in electric peak shaving of coal-fired power plant. Energy Conversion and Management, 2022, 258, 115502.	9.2	16
118	Turbulence Modeling Effects on the Prediction of Equilibrium States of Buoyant Shear Flows. Theoretical and Computational Fluid Dynamics, 2001, 14, 399-422.	2.2	15
119	Analytical considerations of flow boiling heat transfer in metal-foam filled tubes. Heat and Mass Transfer, 2012, 48, 165-173.	2.1	15
120	Solidification analysis of a single particle with encapsulated phase change materials. Applied Thermal Engineering, 2013, 51, 338-346.	6.0	15
121	Compact mid-infrared broadband absorber based on hBN/metal metasurface. International Journal of Thermal Sciences, 2018, 130, 192-199.	4.9	15
122	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. International Journal of Heat and Mass Transfer, 2018, 127, 880-889.	4.8	15
123	A schlieren motion estimation method for seedless velocimetry measurement. Experimental Thermal and Fluid Science, 2019, 109, 109880.	2.7	15
124	Tuning toroidal dipole resonances in dielectric metamolecules by an additional electric dipolar response. Journal of Applied Physics, 2019, 125, 093102.	2.5	15
125	Near-infrared nonreciprocal thermal emitters induced by asymmetric embedded eigenstates. International Journal of Heat and Mass Transfer, 2022, 186, 122435.	4.8	15
126	Heat transfer of phase change materials (PCMs) in porous materials. Frontiers in Energy, 2011, 5, 174-180.	2.3	14

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127	Impinging flame ignition and propagation visualisation using Schlieren and colour-enhanced stereo imaging techniques. Fuel, 2013, 108, 177-183.	6.4	14
128	Mesoscopic exploration on mass transfer in porous thermochemical heat storage materials. International Journal of Heat and Mass Transfer, 2019, 135, 52-61.	4.8	14
129	Machine learning-assisted soot temperature and volume fraction fields predictions in the ethylene laminar diffusion flames. Optics Express, 2021, 29, 1678.	3.4	14
130	Optimal operation scheduling of a pump hydro storage system coupled with a wind farm. IET Renewable Power Generation, 2021, 15, 173-192.	3.1	14
131	Three-Dimensional droplet splashing dynamics measurement with a stereoscopic shadowgraph system. International Journal of Heat and Fluid Flow, 2020, 83, 108576.	2.4	14
132	A three dimensional investigation of turbulent flow and heat transfer around sharp 180-deg turns in two-pass rib-roughened channels. International Communications in Heat and Mass Transfer, 1997, 24, 587-596.	5.6	13
133	Numerical investigation on the effective thermal conductivity of plasma sprayed zirconia coatings. Ceramics International, 2015, 41, 14915-14923.	4.8	13
134	Experimental investigation of coflow effect on the ignition process of a methane jet diffusion flame. Experimental Thermal and Fluid Science, 2018, 91, 184-196.	2.7	13
135	Active tuning of directional scattering by combining magneto-optical effects and multipolar interferences. Nanoscale, 2018, 10, 18282-18290.	5.6	13
136	Role of short-range order in manipulating light absorption in disordered media. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 504.	2.1	13
137	The effect of dehydration temperatures on the performance of the CaO/Ca(OH)2 thermochemical heat storage system. Energy, 2019, 186, 115837.	8.8	13
138	Leidenfrost temperature: Surface thermal diffusivity and effusivity effect. International Journal of Heat and Mass Transfer, 2021, 168, 120892.	4.8	13
139	Nonequilibrium Thermal Response of Porous Media in Unsteady Heat Conduction With Sinusoidally Changing Boundary Temperature. Journal of Heat Transfer, 2015, 137, .	2.1	12
140	Time-resolved 3D investigation of the ignition process of a methane diffusion impinging flame. Experimental Thermal and Fluid Science, 2015, 62, 78-84.	2.7	12
141	Thermal conductivity of hexagonal Si, Ge, and Si1-xGex alloys from first-principles. Journal of Applied Physics, 2018, 123, .	2.5	12
142	Wideband tunable infrared topological plasmon polaritons in dimerized chains of doped-silicon nanoparticles. Journal of Applied Physics, 2020, 127, 073106.	2.5	12
143	Micro/Nanostructures for Far-Field Thermal Emission Control: An Overview. ES Energy & Environments, 2019, , .	1.1	12
144	Investigation of hydration/dehydration processes in a fluidized bed reactor using MgO/Mg(OH)2 thermochemical energy storage system. Solar Energy, 2022, 231, 630-645.	6.1	12

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145	Improved durability in thermochemical energy storage using Ti/Al/Mg Co-doped Calcium-based composites with hierarchical Meso/Micro pore structures. Chemical Engineering Journal, 2022, 450, 138142.	12.7	12
146	Effect of metal particles in cermets on spectral selectivity. Journal of Applied Physics, 2017, 121, .	2.5	11
147	A comparative study of the immiscibility effect on liquid drop impacting onto very thin films. Experiments in Fluids, 2021, 62, 1.	2.4	11
148	U-Net applied to retrieve two-dimensional temperature and CO <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e623" altimg="si76.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:mrow </mml:msub> concentration fields of laminar diffusion flames, Eucl. 2022, 324, 124447</mml:math 	6.4	11
149	Polarization management based on dipolar interferences and lattice couplings. Optics Express, 2018, 26, 7235.	3.4	10
150	Strong coupling between a plasmonic Fano resonance and anapole states in a metallic-dielectric antenna. Journal Physics D: Applied Physics, 2019, 52, 445102.	2.8	10
151	A spatial-temporal algorithm for three-dimensional particle tracking velocimetry using two-view systems. Measurement Science and Technology, 2021, 32, 065011.	2.6	10
152	Terahertz topological plasmon polaritons for robust temperature sensing. Physical Review Materials, 2020, 4, .	2.4	10
153	Three-dimensional investigation of the dynamics of a propane diffusion flame. Fuel, 2014, 116, 448-454.	6.4	9
154	Efficient and antifouling interfacial solar desalination guided by a transient salt capacitance model. Cell Reports Physical Science, 2021, 2, 100330.	5.6	9
155	Near-resonant light transmission in two-dimensional dense cold atomic media with short-range positional correlations. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1757.	2.1	9
156	A novel selective thermophotovoltaic emitter based on multipole resonances. International Journal of Heat and Mass Transfer, 2022, 182, 122039.	4.8	9
157	DFT Modeling of CO ₂ Adsorption and HCOO [•] Group Conversion in Anatase Au-TiO ₂ -Based Photocatalysis. ACS Omega, 2022, 7, 7179-7189.	3.5	9
158	Theoretical Understanding of thermoelectric energy conversion efficiency in Lead-Free halide double perovskites showing intrinsic defect tolerance. Applied Thermal Engineering, 2022, 215, 119024.	6.0	9
159	Geometric Optics Approximation with Considering Interference for Reflection from Random Rough Surface. Journal of Thermophysics and Heat Transfer, 2013, 27, 458-464.	1.6	8
160	Design and analysis of Salisbury screens and Jaumann absorbers for solar radiation absorption. Frontiers in Energy, 2018, 12, 158-168.	2.3	8
161	Analysis of dependent scattering mechanism in hard-sphere Yukawa random media. Journal of Applied Physics, 2018, 123, .	2.5	8
162	Lattice invisibility effect based on transverse Kerker scattering in 1D metalattices. Journal Physics D: Applied Physics, 2019, 52, 495107.	2.8	8

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163	Thermal radiation and conduction in functionally graded thermal barrier coatings. Part II: Experimental thermal conductivities and heat transfer modeling. International Journal of Heat and Mass Transfer, 2019, 134, 166-174.	4.8	8
164	Monitoring anharmonic phonon transport across interfaces in one-dimensional lattice chains. Physical Review E, 2020, 101, 022133.	2.1	8
165	A machine learning based full-spectrum correlated k-distribution model for nonhomogeneous gas-soot mixtures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 268, 107628.	2.3	8
166	Scattering-type multi-probe scanning thermal microscope based on near-field thermal radiation. International Journal of Heat and Mass Transfer, 2021, 181, 121869.	4.8	8
167	Near-field radiative heat transport between nanoparticles inside a cavity configuration. International Journal of Heat and Mass Transfer, 2022, 196, 123213.	4.8	8
168	Melting behaviour of differently-sized micro-particles in a pipe flow under constant heat flux. International Communications in Heat and Mass Transfer, 2014, 53, 64-70.	5.6	7
169	Unified analyses and optimization for achieving perfect absorption of layered absorbers with ultrathin films. International Journal of Heat and Mass Transfer, 2017, 111, 1098-1106.	4.8	7
170	Thermal Transport in Nanoporous Yttria-Stabilized Zirconia by Molecular Dynamics Simulation. Journal of Shanghai Jiaotong University (Science), 2018, 23, 38-44.	0.9	7
171	Negative refraction in metamaterials based on dielectric spherical particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 214, 82-93.	2.3	7
172	Near field radiative heat transfer in asymmetric three-grating systems. International Journal of Heat and Mass Transfer, 2021, 171, 121124.	4.8	7
173	Machine learning applied to the retrieval of three-dimensional scalar fields of laminar flames from hyperspectral measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 279, 108047.	2.3	7
174	Reconfigurable metalattices: Combining multipolar lattice resonances and magneto-optical effect in far and near fields. Journal of Applied Physics, 2019, 126, .	2.5	6
175	GPU_PBTE: an efficient solver for three and four phonon scattering rates on graphics processing units. Journal of Physics Condensed Matter, 2021, 33, 495901.	1.8	6
176	Experimental study on the effect of the liquid/surface thermal properties on droplet impact. Thermal Science, 2021, 25, 705-716.	1.1	6
177	Modelling the effect of binary phase composition on inward solidification of a particle. International Journal of Heat and Mass Transfer, 2012, 55, 6766-6774.	4.8	5
178	Numerical analyses and optimization of tubular thermochemical heat storage reactors using axisymmetric thermal lattice Boltzmann model. Chemical Engineering Science, 2019, 195, 737-747.	3.8	5
179	Topological quantum optical states in quasiperiodic cold atomic chains. Physical Review A, 2021, 103, .	2.5	5
180	Pore-Scale Study of Buoyancy-Driven Gas Bubble Migration, Breakup, Trapping, and Coalescence in the Near Injection Region of Liquid Saturated Porous Media. Industrial & Engineering Chemistry Research, 2021, 60, 12419-12428.	3.7	5

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181	High thermoelectric performance in metastable phase of silicon: A first-principles study. Applied Physics Letters, 2022, 120, .	3.3	5
182	Natural Convection Investigations in Porous Phase Change Materials. Nanoscience and Nanotechnology Letters, 2011, 3, 769-772.	0.4	4
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