

Yuwen Zhang

List of Publications by Year in descending order

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436
papers

12,014
citations

20797

60
h-index

46771

89
g-index

438
all docs

438
docs citations

438
times ranked

6989
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances and Unsolved Issues in Pulsating Heat Pipes. <i>Heat Transfer Engineering</i> , 2008, 29, 20-44.	1.2	366
2	The development technology and applications of supercritical CO ₂ power cycle in nuclear energy, solar energy and other energy industries. <i>Applied Thermal Engineering</i> , 2017, 126, 255-275.	3.0	301
3	Thermal Modeling of Unlooped and Looped Pulsating Heat Pipes. <i>Journal of Heat Transfer</i> , 2001, 123, 1159-1172.	1.2	275
4	Thermal management optimization of an air-cooled Li-ion battery module using pin-fin heat sinks for hybrid electric vehicles. <i>Journal of Power Sources</i> , 2015, 273, 431-439.	4.0	186
5	Generalized dual-phase lag bioheat equations based on nonequilibrium heat transfer in living biological tissues. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 4829-4834.	2.5	182
6	Thermal performance analysis of a parabolic trough solar collector using supercritical CO ₂ as heat transfer fluid under non-uniform solar flux. <i>Applied Thermal Engineering</i> , 2017, 115, 1255-1265.	3.0	182
7	Experimental and numerical study on the performance of a new high-temperature packed-bed thermal energy storage system with macroencapsulation of molten salt phase change material. <i>Applied Energy</i> , 2018, 221, 1-15.	5.1	173
8	Heat transfer enhancement in latent heat thermal energy storage system by using the internally finned tube. <i>International Journal of Heat and Mass Transfer</i> , 1996, 39, 3165-3173.	2.5	165
9	Heat transfer in a pulsating heat pipe with open end. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 755-764.	2.5	165
10	Dual-phase lag effects on thermal damage to biological tissues caused by laser irradiation. <i>Computers in Biology and Medicine</i> , 2009, 39, 286-293.	3.9	163
11	Parametric optimization of regenerative organic Rankine cycle (ORC) for low grade waste heat recovery using genetic algorithm. <i>Energy</i> , 2013, 58, 473-482.	4.5	161
12	A systematic comparison of different S-CO ₂ Brayton cycle layouts based on multi-objective optimization for applications in solar power tower plants. <i>Applied Energy</i> , 2018, 212, 109-121.	5.1	152
13	Molecular dynamics simulation of effect of liquid layering around the nanoparticle on the enhanced thermal conductivity of nanofluids. <i>Journal of Nanoparticle Research</i> , 2010, 12, 811-821.	0.8	144
14	Melting performance enhancement of phase change material by a limited amount of metal foam: Configurational optimization and economic assessment. <i>Applied Energy</i> , 2018, 212, 868-880.	5.1	143
15	Numerical study of heat-transfer enhancement by punched winglet-type vortex generator arrays in fin-and-tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5449-5458.	2.5	133
16	Three dimensional numerical study of heat-transfer enhancement by nano-encapsulated phase change material slurry in microtube heat sinks with tangential impingement. <i>International Journal of Heat and Mass Transfer</i> , 2013, 56, 561-573.	2.5	132
17	Analysis of heat transfer and pressure drop for fin-and-tube heat exchangers with rectangular winglet-type vortex generators. <i>Applied Thermal Engineering</i> , 2013, 61, 770-783.	3.0	129
18	Thermal management improvement of an air-cooled high-power lithium-ion battery by embedding metal foam. <i>Journal of Power Sources</i> , 2015, 296, 305-313.	4.0	122

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19	An axisymmetric dual-phase-lag bioheat model for laser heating of living tissues. <i>International Journal of Thermal Sciences</i> , 2009, 48, 1477-1485.	2.6	119
20	Thermal conductivity, shear viscosity and specific heat of rigid water models. <i>Chemical Physics Letters</i> , 2012, 542, 37-41.	1.2	118
21	Internal cooling of a lithium-ion battery using electrolyte as coolant through microchannels embedded inside the electrodes. <i>Journal of Power Sources</i> , 2015, 293, 458-466.	4.0	115
22	Analysis of heat transfer in unlooped and looped pulsating heat pipes. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2002, 12, 585-609.	1.6	111
23	Experimental study on thermal performance of high-temperature molten salt cascaded latent heat thermal energy storage system. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 997-1011.	2.5	109
24	Analysis of forced convection heat transfer in microencapsulated phase change material suspensions. <i>Journal of Thermophysics and Heat Transfer</i> , 1995, 9, 727-732.	0.9	106
25	Eccentricity optimization of a horizontal shell-and-tube latent-heat thermal energy storage unit based on melting and melting-solidifying performance. <i>Applied Energy</i> , 2018, 220, 447-454.	5.1	102
26	Effect of nanotextured array of conical features on explosive boiling over a flat substrate: A nonequilibrium molecular dynamics study. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 613-624.	2.5	96
27	Molecular dynamics simulation on rapid boiling of water on a hot copper plate. <i>Applied Thermal Engineering</i> , 2014, 62, 607-612.	3.0	96
28	Gas-side fouling, erosion and corrosion of heat exchangers for middle/low temperature waste heat utilization: A review on simulation and experiment. <i>Applied Thermal Engineering</i> , 2017, 126, 737-761.	3.0	95
29	Simulation of random packing of spherical particles with different size distributions. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 621-626.	1.1	94
30	Vaporization, melting and heat conduction in the laser drilling process. <i>International Journal of Heat and Mass Transfer</i> , 1999, 42, 1775-1790.	2.5	90
31	An investigation of molecular layering at the liquid-solid interface in nanofluids by molecular dynamics simulation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4541-4544.	0.9	90
32	Heat Transport Capability in an Oscillating Heat Pipe. <i>Journal of Heat Transfer</i> , 2008, 130, .	1.2	88
33	Pore-scale numerical simulation of fully coupled heat transfer process in porous volumetric solar receiver. <i>Energy</i> , 2017, 140, 1267-1275.	4.5	82
34	Numerical Simulation of Thermal Damage to Living Biological Tissues Induced by Laser Irradiation Based on a Generalized Dual Phase Lag Model. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 61, 483-501.	1.2	79
35	Numerical study of the heat charging and discharging characteristics of a shell-and-tube phase change heat storage unit. <i>Applied Thermal Engineering</i> , 2013, 58, 542-553.	3.0	77
36	Melting of a subcooled mixed powder bed with constant heat flux heating. <i>International Journal of Heat and Mass Transfer</i> , 1999, 42, 775-788.	2.5	75

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37	Semi-analytical solution of thermal energy storage system with conjugate laminar forced convection. <i>International Journal of Heat and Mass Transfer</i> , 1996, 39, 717-724.	2.5	74
38	Analysis of liquid-vapor pulsating flow in a U-shaped miniature tube. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 2501-2508.	2.5	74
39	A novel integrated simulation approach couples MCRT and Gebhart methods to simulate solar radiation transfer in a solar power tower system with a cavity receiver. <i>Renewable Energy</i> , 2016, 89, 93-107.	4.3	74
40	Thermodynamic performance analysis of different supercritical Brayton cycles using CO ₂ -based binary mixtures in the molten salt solar power tower systems. <i>Energy</i> , 2019, 173, 785-798.	4.5	74
41	Three-Dimensional Sintering of Two-Component Metal Powders With Stationary and Moving Laser Beams. <i>Journal of Heat Transfer</i> , 2000, 122, 150-158.	1.2	73
42	Numerical simulation of laminar forced convection heat transfer of Al ₂ O ₃ -water nanofluid in a pipe with return bend. <i>International Journal of Thermal Sciences</i> , 2012, 55, 90-102.	2.6	73
43	Optical properties and thermal response of copper films induced by ultrashort-pulsed lasers. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	71
44	Oscillatory Flow in Pulsating Heat Pipes with Arbitrary Numbers of Turns. <i>Journal of Thermophysics and Heat Transfer</i> , 2003, 17, 340-347.	0.9	70
45	Evaluation of alternative eutectic salt as heat transfer fluid for solar power tower coupling a supercritical CO ₂ Brayton cycle from the viewpoint of system-level analysis. <i>Journal of Cleaner Production</i> , 2021, 279, 123472.	4.6	70
46	Molecular dynamics simulation of thermal conductivity of Cu-Ar nanofluid using EAM potential for Cu-Cu interactions. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 1001-1008.	1.1	69
47	Thermal lagging in living biological tissue based on nonequilibrium heat transfer between tissue, arterial and venous bloods. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 2419-2426.	2.5	69
48	Molecular dynamics simulation of cross-linked epoxy resin and its interaction energy with graphene under two typical force fields. <i>Computational Materials Science</i> , 2018, 143, 240-247.	1.4	69
49	Non-Fourier Heat Conduction Effect on Laser-Induced Thermal Damage in Biological Tissues. <i>Numerical Heat Transfer; Part A: Applications</i> , 2008, 54, 1-19.	1.2	66
50	Cumulative effects of using pin fin heat sink and porous metal foam on thermal management of lithium-ion batteries. <i>Applied Thermal Engineering</i> , 2017, 118, 375-384.	3.0	66
51	The investigation of thermo-economic performance and conceptual design for the miniaturized lead-cooled fast reactor composing supercritical CO ₂ power cycle. <i>Energy</i> , 2019, 173, 174-195.	4.5	66
52	Numerical Simulation of Random Packing of Spherical Particles for Powder-Based Additive Manufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2009, 131, .	1.3	65
53	Numerical simulation of laser irradiation to a randomly packed bimodal powder bed. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3137-3146.	2.5	65
54	Evaluation of copper, aluminum, and nickel interatomic potentials on predicting the elastic properties. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	65

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55	Numerical investigation of chaotic flow in a 2D closed-loop pulsating heat pipe. Applied Thermal Engineering, 2016, 98, 617-627.	3.0	65
56	Lattice Boltzmann method simulation of 3-D natural convection with double MRT model. International Journal of Heat and Mass Transfer, 2016, 94, 222-238.	2.5	65
57	Economical evaluation and optimization of organic Rankine cycle with mixture working fluids using R245fa as flame retardant. Applied Thermal Engineering, 2017, 113, 1056-1070.	3.0	65
58	Improving temperature uniformity of a lithium-ion battery by intermittent heating method in cold climate. International Journal of Heat and Mass Transfer, 2018, 121, 275-281.	2.5	64
59	Experimental investigations of the creep“damage“rupture behaviour of rock salt. International Journal of Rock Mechanics and Minings Sciences, 2014, 66, 181-187.	2.6	62
60	Thermal analysis of solar central receiver tube with porous inserts and non-uniform heat flux. Applied Energy, 2017, 185, 1152-1161.	5.1	62
61	Temperature uniformity of a heated lithium-ion battery cell in cold climate. Applied Thermal Engineering, 2018, 129, 148-154.	3.0	62
62	Heat Transfer Enhancement in Latent Heat Thermal Energy Storage System by Using an External Radial Finned Tube. Journal of Enhanced Heat Transfer, 1996, 3, 119-127.	0.5	62
63	Melting in an enclosure with discrete heating at a constant rate. Experimental Thermal and Fluid Science, 1993, 6, 196-201.	1.5	61
64	Aiming strategy optimization for uniform flux distribution in the receiver of a linear Fresnel solar reflector using a multi-objective genetic algorithm. Applied Energy, 2017, 205, 1394-1407.	5.1	61
65	THERMODYNAMICS OF MULTIPHASE SYSTEMS. , 2006, , 107-176.		58
66	Molecular dynamics simulation of condensation on nanostructured surface in a confined space. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	57
67	Effect of nanostructure on rapid boiling of water on a hot copper plate: a molecular dynamics study. Heat and Mass Transfer, 2016, 52, 1469-1478.	1.2	57
68	Simulation of real time particle deposition and removal processes on tubes by coupled numerical method. Applied Energy, 2017, 185, 2181-2193.	5.1	57
69	Numerical simulation on flow and heat transfer of fin-and-tube heat exchanger with longitudinal vortex generators. International Journal of Thermal Sciences, 2015, 92, 85-96.	2.6	56
70	A hybrid model for explaining the short-term dynamics of energy efficiency of China“s thermal power plants. Applied Energy, 2016, 169, 738-747.	5.1	56
71	Capillary Blocking in Forced Convective Condensation in Horizontal Miniature Channels. Journal of Heat Transfer, 2001, 123, 501-511.	1.2	55
72	Molecular Dynamics Simulation of Normal and Explosive Boiling on Nanostructured Surface. Journal of Heat Transfer, 2013, 135, .	1.2	55

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73	Analysis of wind turbine blades aeroelastic performance under yaw conditions. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 171, 273-287.	1.7	54
74	Highly Dispersed Palladium Nanoparticles on Carbon-Decorated Porous Nickel Electrode: An Effective Strategy to Boost Direct Ethanol Fuel Cell up to 202 mW cm ² . ACS Sustainable Chemistry and Engineering, 2019, 7, 11186-11193.	3.2	52
75	Molecular dynamics study of neck growth in laser sintering of hollow silver nanoparticles with different heating rates. Journal Physics D: Applied Physics, 2013, 46, 335302.	1.3	51
76	Molecular Dynamics Simulation on Rapid Boiling of Thin Water Films on Cone-Shaped Nanostructure Surfaces. Nanoscale and Microscale Thermophysical Engineering, 2015, 19, 17-30.	1.4	51
77	Marangoni and Buoyancy Effects on Direct Metal Laser Sintering with a Moving Laser Beam. Numerical Heat Transfer; Part A: Applications, 2007, 51, 715-733.	1.2	50
78	A graphical criterion for working fluid selection and thermodynamic system comparison in waste heat recovery. Applied Thermal Engineering, 2015, 89, 772-782.	3.0	50
79	Coupled optical and thermal performance of a fin-like molten salt receiver for the next-generation solar power tower. Applied Energy, 2020, 272, 115079.	5.1	50
80	Analysis of nanofluid effects on thermoelectric cooling by micro-pin-fin heat exchangers. Applied Thermal Engineering, 2014, 70, 282-290.	3.0	49
81	Analysis of performances of a manifold microchannel heat sink with nanofluids. International Journal of Thermal Sciences, 2015, 89, 305-313.	2.6	49
82	Experimental investigation of thermal performance of the oscillating heat pipe for the grinding wheel. International Journal of Heat and Mass Transfer, 2019, 136, 911-923.	2.5	49
83	Laser sintering of metal powders on top of sintered layers under multiple-line laser scanning. Journal Physics D: Applied Physics, 2007, 40, 6725-6734.	1.3	48
84	Onset of double-diffusive convection in horizontal cavity with Soret and Dufour effects. International Journal of Heat and Mass Transfer, 2014, 78, 1023-1031.	2.5	48
85	Temperature and Wavelength-Dependent Spectral Absorptivities of Metallic Materials in the Infrared. Journal of Thermophysics and Heat Transfer, 2006, 20, 9-15.	0.9	47
86	Melting and resolidification of gold film irradiated by nano- to femtosecond lasers. Applied Physics A: Materials Science and Processing, 2007, 88, 289-297.	1.1	47
87	Molecular dynamics simulation of neck growth in laser sintering of different-sized gold nanoparticles under different heating rates. Applied Physics A: Materials Science and Processing, 2012, 106, 725-735.	1.1	47
88	Melting and Resolidification of a Subcooled Mixed Powder Bed With Moving Gaussian Heat Source. Journal of Heat Transfer, 1998, 120, 883-891.	1.2	46
89	Analysis and Optimization of a Compressed Air Energy Storage Combined Cycle System. Entropy, 2014, 16, 3103-3120.	1.1	46
90	The thermodynamic and cost-benefit-analysis of miniaturized lead-cooled fast reactor with supercritical CO ₂ power cycle in the commercial market. Progress in Nuclear Energy, 2018, 103, 135-150.	1.3	45

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91	Inverse estimation of surface heating condition in a three-dimensional object using conjugate gradient method. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 2643-2654.	2.5	44
92	Advances and Outlooks of Heat Transfer Enhancement by Longitudinal Vortex Generators. <i>Advances in Heat Transfer</i> , 2012, , 119-185.	0.4	44
93	Melting and resolidification of a subcooled metal powder particle subjected to nanosecond laser heating. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 2236-2245.	2.5	43
94	An Interfacial Tracking Method for Ultrashort Pulse Laser Melting and Resolidification of a Thin Metal Film. <i>Journal of Heat Transfer</i> , 2008, 130, .	1.2	43
95	Fouling potential prediction and multi-objective optimization of a flue gas heat exchanger using neural networks and genetic algorithms. <i>International Journal of Heat and Mass Transfer</i> , 2020, 152, 119488.	2.5	43
96	Thermal ablation of metal films by femtosecond laser bursts. <i>International Journal of Thermal Sciences</i> , 2013, 70, 32-40.	2.6	42
97	Fabrication and electrical properties of polymer-derived ceramic (PDC) thin films for high-temperature heat flux sensors. <i>Sensors and Actuators A: Physical</i> , 2011, 165, 250-255.	2.0	41
98	Numerical Simulation of Unsteady Natural Convection from Heated Horizontal Circular Cylinders in a Square Enclosure. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 715-731.	1.2	41
99	Solid velocity correction schemes for a temperature transforming model for convection phase change. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2006, 16, 204-225.	1.6	40
100	Three-Dimensional Modeling of Selective Laser Sintering of Two-Component Metal Powder Layers. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2006, 128, 299-306.	1.3	40
101	NUMERICAL SIMULATION OF TWO-DIMENSIONAL MELTING AND RESOLIDIFICATION OF A TWO-COMPONENT METAL POWDER LAYER IN SELECTIVE LASER SINTERING PROCESS. <i>Numerical Heat Transfer; Part A: Applications</i> , 2004, 46, 633-649.	1.2	39
102	Ultrafast solidâ€“liquidâ€“vapor phase change in a thin gold film irradiated by multiple femtosecond laser pulses. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3091-3100.	2.5	39
103	Analysis of chaotic flow in a 2D multi-turn closed-loop pulsating heat pipe. <i>Applied Thermal Engineering</i> , 2017, 126, 1069-1076.	3.0	39
104	Improving wettability and preventing Li-ion batteries from thermal runaway using microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 911-918.	2.5	39
105	Ultrashort laser pulse energy deposition in metal films with phase changes. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	37
106	Performance Augmentation and Optimization of Aluminum Oxide-Water Nanofluid Flow in a Two-Fluid Microchannel Heat Exchanger. <i>Journal of Heat Transfer</i> , 2014, 136, .	1.2	37
107	Molecular Dynamics Simulation on Effect of Nanoparticle Aggregation on Transport Properties of a Nanofluid1. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2012, 3, .	0.8	36
108	Experimental studies of organic Rankine cycle systems using scroll expanders with different suction volumes. <i>Journal of Cleaner Production</i> , 2019, 218, 241-249.	4.6	36

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109	Multi-objective optimization of the solar absorptivity distribution inside a cavity solar receiver for solar power towers. <i>Solar Energy</i> , 2017, 158, 247-258.	2.9	36
110	Effect of Brownian and Thermophoretic Diffusions of Nanoparticles on Nonequilibrium Heat Conduction in a Nanofluid Layer with Periodic Heat Flux. <i>Numerical Heat Transfer; Part A: Applications</i> , 2009, 56, 325-341.	1.2	35
111	Effects of pin tip-clearance on the performance of an enhanced microchannel heat sink with oblique fins and phase change material slurry. <i>International Journal of Heat and Mass Transfer</i> , 2015, 83, 136-145.	2.5	35
112	Oscillatory double-diffusive convection in a horizontal cavity with Soret and Dufour effects. <i>International Journal of Thermal Sciences</i> , 2016, 106, 57-69.	2.6	35
113	A Boundary Element Method for Evaluation of the Effective Thermal Conductivity of Packed Beds. <i>Journal of Heat Transfer</i> , 2007, 129, 363-371.	1.2	34
114	A coupled lattice Boltzmann and finite volume method for natural convection simulation. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 864-874.	2.5	34
115	Optical efficiency improvement of solar power tower by employing and optimizing novel fin-like receivers. <i>Energy Conversion and Management</i> , 2019, 184, 219-234.	4.4	34
116	Molecular dynamics simulation of water purification using zeolite MFI nanosheets. <i>Separation and Purification Technology</i> , 2020, 234, 116080.	3.9	34
117	Ultrafast solid-liquid-vapor phase change of a gold film induced by pico- to femtosecond lasers. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 643-653.	1.1	33
118	Effects of mass transfer time relaxation parameters on condensation in a thermosyphon. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 5497-5505.	0.7	33
119	Analysis of melting and resolidification in a two-component metal powder bed subjected to temporal Gaussian heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 3932-3944.	2.5	32
120	Real-time solution of heat conduction in a finite slab for inverse analysis. <i>International Journal of Thermal Sciences</i> , 2010, 49, 762-768.	2.6	32
121	Ultrafast melting and resolidification of gold particle irradiated by pico- to femtosecond lasers. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	31
122	Modeling of ultrafast phase changes in metal films induced by an ultrashort laser pulse using a semi-classical two-temperature model. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 1620-1627.	2.5	31
123	Numerical Simulation of Melting Problems Using the Lattice Boltzmann Method with the Interfacial Tracking Method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 1175-1197.	1.2	31
124	Numerical Simulation of Steady Mixed Convection Around Two Heated Circular Cylinders in a Square Enclosure. <i>Heat Transfer Engineering</i> , 2016, 37, 64-75.	1.2	31
125	A new radial integration polygonal boundary element method for solving heat conduction problems. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 251-260.	2.5	31
126	Effects of fluctuations of heating and cooling section temperatures on performance of a pulsating heat pipe. <i>Applied Thermal Engineering</i> , 2013, 58, 42-51.	3.0	30

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127	Numerical study of double diffusive mixed convection around a heated cylinder in an enclosure. <i>International Journal of Thermal Sciences</i> , 2014, 78, 169-181.	2.6	30
128	Flow and Heat Transfer in Micro Pin Fin Heat Sinks With Nano-Encapsulated Phase Change Materials. <i>Journal of Heat Transfer</i> , 2016, 138, .	1.2	30
129	Molecular dynamics simulation of the effect of oxygen-containing functional groups on the thermal conductivity of reduced graphene oxide. <i>Computational Materials Science</i> , 2018, 148, 176-183.	1.4	30
130	Interatomic Potentials Transferability for Molecular Simulations: A Comparative Study for Platinum, Gold and Silver. <i>Scientific Reports</i> , 2018, 8, 2424.	1.6	30
131	Numerical Simulation of Direct Metal Laser Sintering of Single-Component Powder on Top of Sintered Layers. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008, 130, .	1.3	29
132	Inverse Heat Conduction Using Measured Back Surface Temperature and Heat Flux. <i>Journal of Thermophysics and Heat Transfer</i> , 2010, 24, 95-103.	0.9	29
133	Simulation of granular packing of particles with different size distributions. <i>Computational Materials Science</i> , 2012, 51, 172-180.	1.4	29
134	Dynamic simulation of granular packing of fine cohesive particles with different size distributions. <i>Powder Technology</i> , 2012, 218, 76-85.	2.1	29
135	Numerical simulation on the thermal performance of hydraulic floor heating system with phase change materials. <i>Applied Thermal Engineering</i> , 2016, 93, 900-907.	3.0	29
136	NUMERICAL SIMULATION OF CONDENSATION ON A CAPILLARY GROOVED STRUCTURE. <i>Numerical Heat Transfer; Part A: Applications</i> , 2001, 39, 227-243.	1.2	28
137	Numerical solution of multi-dimensional transient nonlinear heat conduction problems with heat sources by an extended element differential method. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 1111-1119.	2.5	28
138	Experimental study on anode components optimization for direct glucose fuel cells. <i>Energy</i> , 2019, 176, 15-22.	4.5	28
139	A partial shrinkage model for selective laser sintering of a two-component metal powder layer. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 1489-1492.	2.5	25
140	Thermal modeling of selective area laser deposition of titanium nitride on a finite slab with stationary and moving laser beams. <i>International Journal of Heat and Mass Transfer</i> , 2000, 43, 3835-3846.	2.5	24
141	Effects of Film Evaporation and Condensation on Oscillatory Flow and Heat Transfer in an Oscillating Heat Pipe. <i>Journal of Heat Transfer</i> , 2011, 133, .	1.2	24
142	Flow and Heat Transfer of Nanoencapsulated Phase Change Material Slurry Past a Unconfined Square Cylinder. <i>Journal of Heat Transfer</i> , 2014, 136, .	1.2	24
143	Identification of two-phase water-air flow patterns in a vertical pipe using fuzzy logic and genetic algorithm. <i>Applied Thermal Engineering</i> , 2015, 85, 195-206.	3.0	24
144	Fouling and thermal-hydraulic characteristics of aligned elliptical tube and honeycomb circular tube in flue gas heat exchangers. <i>Fuel</i> , 2019, 251, 316-327.	3.4	24

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145	Inverse estimation of front surface temperature of a plate with laser heating and convection–radiation cooling. <i>International Journal of Thermal Sciences</i> , 2012, 52, 22-30.	2.6	23
146	Inverse identification of boundary conditions in a scramjet combustor with a regenerative cooling system. <i>Applied Thermal Engineering</i> , 2018, 134, 555-563.	3.0	23
147	Experimental study of the organic rankine cycle under different heat and cooling conditions. <i>Energy</i> , 2019, 180, 678-688.	4.5	23
148	Inverse estimation of spatially and temporally varying heating boundary conditions of a two-dimensional object. <i>International Journal of Thermal Sciences</i> , 2010, 49, 1669-1679.	2.6	22
149	Combined Heat Transfer by Natural Convection – Conduction and Surface Radiation in an Open Cavity Under Constant Heat Flux Heating. <i>Numerical Heat Transfer; Part A: Applications</i> , 2011, 60, 289-304.	1.2	22
150	Estimation of front surface temperature and heat flux of a locally heated plate from distributed sensor data on the back surface. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 3431-3439.	2.5	22
151	Heat Transfer Enhancement of Backward-Facing Step Flow by Using Nano-Encapsulated Phase Change Material Slurry. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 67, 381-400.	1.2	22
152	Numerical and experimental investigation of solar air collector with internal swirling flow. <i>Renewable Energy</i> , 2020, 162, 2259-2271.	4.3	22
153	Thermal modeling of laser sintering of two-component metal powder on top of sintered layers via multi-line scanning. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 86, 213-220.	1.1	21
154	Inverse Estimation of Surface Heating Condition in a Finite Slab With Temperature-Dependent Thermophysical Properties. <i>Heat Transfer Engineering</i> , 2011, 32, 861-875.	1.2	21
155	Femtosecond laser processing of germanium: an ab initio molecular dynamics study. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495108.	1.3	21
156	Ab initio determination of effective electron–phonon coupling factor in copper. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 1551-1555.	0.9	21
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