

Yuwen Zhang

List of Publications by Citations

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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.

364
papers

8,748
citations

50
h-index

75
g-index

438
ext. papers

10,293
ext. citations

3.7
avg, IF

6.86
L-index

#	Paper	IF	Citations
364	Advances and Unsolved Issues in Pulsating Heat Pipes. <i>Heat Transfer Engineering</i> , 2008 , 29, 20-44	1.7	278
363	Thermal Modeling of Unlooped and Looped Pulsating Heat Pipes. <i>Journal of Heat Transfer</i> , 2001 , 123, 1159-1172	1.8	214
362	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	5.8	186
361	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	4.9	138
360	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	4.9	137
359	Parametric optimization of regenerative organic Rankine cycle (ORC) for low grade waste heat recovery using genetic algorithm. <i>Energy</i> , 2013 , 58, 473-482	7.9	135
358	Dual-phase lag effects on thermal damage to biological tissues caused by laser irradiation. <i>Computers in Biology and Medicine</i> , 2009 , 39, 286-93	7	135
357	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	8.9	128
356	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	5.8	128
355	Heat transfer in a pulsating heat pipe with open end. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 755-764	4.9	127
354	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	2.3	118
353	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	10.7	106
352	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	4.9	106
351	An axisymmetric dual-phase-lag bioheat model for laser heating of living tissues. <i>International Journal of Thermal Sciences</i> , 2009 , 48, 1477-1485	4.1	100
350	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	4.9	99
349	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	5.8	94
348	Thermal conductivity, shear viscosity and specific heat of rigid water models. <i>Chemical Physics Letters</i> , 2012 , 542, 37-41	2.5	92

347	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	10.7	90
346	Analysis of forced convection heat transfer in microencapsulated phase change material suspensions. <i>Journal of Thermophysics and Heat Transfer</i> , 1995 , 9, 727-732	1.3	88
345	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	4.5	87
344	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	8.9	86
343	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	8.9	76
342	Simulation of random packing of spherical particles with different size distributions. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 621-626	2.6	76
341	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	2.3	76
340	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	10.7	74
339	Vaporization, melting and heat conduction in the laser drilling process. <i>International Journal of Heat and Mass Transfer</i> , 1999 , 42, 1775-1790	4.9	74
338	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	4.9	69
337	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	4.9	69
336	Molecular dynamics simulation on rapid boiling of water on a hot copper plate. <i>Applied Thermal Engineering</i> , 2014 , 62, 607-612	5.8	68
335	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	5.8	68
334	Heat Transport Capability in an Oscillating Heat Pipe. <i>Journal of Heat Transfer</i> , 2008 , 130,	1.8	66
333	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	4.9	65
332	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	4.9	65
331	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	8.1	63
330	Pore-scale numerical simulation of fully coupled heat transfer process in porous volumetric solar receiver. <i>Energy</i> , 2017 , 140, 1267-1275	7.9	62

329	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	2.3	62
328	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	4.1	59
327	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	2.3	59
326	Three-Dimensional Sintering of Two-Component Metal Powders With Stationary and Moving Laser Beams. <i>Journal of Heat Transfer</i> , 2000 , 122, 150-158	1.8	59
325	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	10.7	56
324	Economical evaluation and optimization of organic Rankine cycle with mixture working fluids using R245fa as flame retardant. <i>Applied Thermal Engineering</i> , 2017 , 113, 1056-1070	5.8	54
323	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	5.8	54
322	Heat Transfer Enhancement in Latent Heat Thermal Energy Storage System by Using an External Radial Finned Tube. <i>Journal of Enhanced Heat Transfer</i> , 1996 , 3, 119-127	1.7	54
321	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	4.9	53
320	Oscillatory Flow in Pulsating Heat Pipes with Arbitrary Numbers of Turns. <i>Journal of Thermophysics and Heat Transfer</i> , 2003 , 17, 340-347	1.3	53
319	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	4.9	53
318	Melting in an enclosure with discrete heating at a constant rate. <i>Experimental Thermal and Fluid Science</i> , 1993 , 6, 196-201	3	52
317	Optical properties and thermal response of copper films induced by ultrashort-pulsed lasers. <i>Journal of Applied Physics</i> , 2011 , 110, 113102	2.5	51
316	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,	3.3	50
315	A hybrid model for explaining the short-term dynamics of energy efficiency of China's thermal power plants. <i>Applied Energy</i> , 2016 , 169, 738-747	10.7	50
314	Experimental investigations of the creep-damage-rupture behaviour of rock salt. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014 , 66, 181-187	6	48
313	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	2.6	48
312	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	4.9	47

3 ¹¹	Thermal analysis of solar central receiver tube with porous inserts and non-uniform heat flux. <i>Applied Energy</i> , 2017 , 185, 1152-1161	10.7	46
3 ¹⁰	Aiming strategy optimization for uniform flux distribution in the receiver of a linear Fresnel solar reflector using a multi-objective genetic algorithm. <i>Applied Energy</i> , 2017 , 205, 1394-1407	10.7	46
3 ⁰⁹	Capillary Blocking in Forced Convective Condensation in Horizontal Miniature Channels. <i>Journal of Heat Transfer</i> , 2001 , 123, 501-511	1.8	46
3 ⁰⁸	Numerical simulation on flow and heat transfer of fin-and-tube heat exchanger with longitudinal vortex generators. <i>International Journal of Thermal Sciences</i> , 2015 , 92, 85-96	4.1	45
3 ⁰⁷	Molecular dynamics simulation of condensation on nanostructured surface in a confined space. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	45
3 ⁰⁶	Numerical investigation of chaotic flow in a 2D closed-loop pulsating heat pipe. <i>Applied Thermal Engineering</i> , 2016 , 98, 617-627	5.8	44
3 ⁰⁵	Simulation of real time particle deposition and removal processes on tubes by coupled numerical method. <i>Applied Energy</i> , 2017 , 185, 2181-2193	10.7	43
3 ⁰⁴	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	5.8	43
3 ⁰³	A graphical criterion for working fluid selection and thermodynamic system comparison in waste heat recovery. <i>Applied Thermal Engineering</i> , 2015 , 89, 772-782	5.8	43
3 ⁰²	Lattice Boltzmann method simulation of 3-D natural convection with double MRT model. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 94, 222-238	4.9	43
3 ⁰¹	Evaluation of copper, aluminum, and nickel interatomic potentials on predicting the elastic properties. <i>Journal of Applied Physics</i> , 2016 , 119, 244304	2.5	43
3 ⁰⁰	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	7.9	42
2 ⁹⁹	Marangoni and Buoyancy Effects on Direct Metal Laser Sintering with a Moving Laser Beam. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007 , 51, 715-733	2.3	42
2 ⁹⁸	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	3.2	42
2 ⁹⁷	Analysis of nanofluid effects on thermoelectric cooling by micro-pin-fin heat exchangers. <i>Applied Thermal Engineering</i> , 2014 , 70, 282-290	5.8	40
2 ⁹⁶	Molecular Dynamics Simulation of Normal and Explosive Boiling on Nanostructured Surface. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	40
2 ⁹⁵	Laser sintering of metal powders on top of sintered layers under multiple-line laser scanning. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 6725-6734	3	40
2 ⁹⁴	Improving temperature uniformity of a lithium-ion battery by intermittent heating method in cold climate. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 121, 275-281	4.9	39

293	Analysis and Optimization of a Compressed Air Energy Storage Combined Cycle System. <i>Entropy</i> , 2014 , 16, 3103-3120	2.8	39
292	THERMODYNAMICS OF MULTIPHASE SYSTEMS 2006 , 107-176		39
291	Temperature and Wavelength-Dependent Spectral Absorptivities of Metallic Materials in the Infrared. <i>Journal of Thermophysics and Heat Transfer</i> , 2006 , 20, 9-15	1.3	39
290	Temperature uniformity of a heated lithium-ion battery cell in cold climate. <i>Applied Thermal Engineering</i> , 2018 , 129, 148-154	5.8	38
289	Effect of nanostructure on rapid boiling of water on a hot copper plate: a molecular dynamics study. <i>Heat and Mass Transfer</i> , 2016 , 52, 1469-1478	2.2	38
288	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	4.9	38
287	Melting and Resolidification of a Subcooled Mixed Powder Bed With Moving Gaussian Heat Source. <i>Journal of Heat Transfer</i> , 1998 , 120, 883-891	1.8	38
286	Molecular Dynamics Simulation on Rapid Boiling of Thin Water Films on Cone-Shaped Nanostructure Surfaces. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2015 , 19, 17-30	3.7	36
285	Analysis of wind turbine blades aeroelastic performance under yaw conditions. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017 , 171, 273-287	3.7	36
284	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	4.9	36
283	Melting and resolidification of gold film irradiated by nano- to femtosecond lasers. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 88, 289-297	2.6	36
282	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 . <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11186-11193	8.3	35
281	Analysis of performances of a manifold microchannel heat sink with nanofluids. <i>International Journal of Thermal Sciences</i> , 2015 , 89, 305-313	4.1	35
280	Advances and Outlooks of Heat Transfer Enhancement by Longitudinal Vortex Generators. <i>Advances in Heat Transfer</i> , 2012 , 119-185	1.9	35
279	Molecular dynamics study of neck growth in laser sintering of hollow silver nanoparticles with different heating rates. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 335302	3	35
278	Onset of double-diffusive convection in horizontal cavity with Soret and Dufour effects. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 1023-1031	4.9	34
277	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	2.3	34
276	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	4.5	34

275	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	2.3	33
274	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	3.3	33
273	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	10.3	33
272	Molecular dynamics simulation of neck growth in laser sintering of different-sized gold nanoparticles under different heating rates. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 106, 725-735	2.6	32
271	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	6.8	32
270	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,	1.8	31
269	Thermal ablation of metal films by femtosecond laser bursts. <i>International Journal of Thermal Sciences</i> , 2013 , 70, 32-40	4.1	31
268	Coupled optical and thermal performance of a fin-like molten salt receiver for the next-generation solar power tower. <i>Applied Energy</i> , 2020 , 272, 115079	10.7	30
267	A Boundary Element Method for Evaluation of the Effective Thermal Conductivity of Packed Beds. <i>Journal of Heat Transfer</i> , 2007 , 129, 363-371	1.8	30
266	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	4.9	29
265	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,		29
264	An Interfacial Tracking Method for Ultrashort Pulse Laser Melting and Resolidification of a Thin Metal Film. <i>Journal of Heat Transfer</i> , 2008 , 130,	1.8	29
263	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	7.9	28
262	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	4.9	28
261	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	4.9	28
260	The thermodynamic and cost-benefit-analysis of miniaturized lead-cooled fast reactor with supercritical CO ₂ power cycle in the commercial market. <i>Progress in Nuclear Energy</i> , 2018 , 103, 135-150	2.3	27
259	Ultrafast melting and resolidification of gold particle irradiated by pico- to femtosecond lasers. <i>Journal of Applied Physics</i> , 2008 , 104, 054910	2.5	27
258	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	2.3	27

257	Analysis of chaotic flow in a 2D multi-turn closed-loop pulsating heat pipe. <i>Applied Thermal Engineering</i> , 2017 , 126, 1069-1076	5.8	26
256	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	10.6	26
255	Dynamic simulation of granular packing of fine cohesive particles with different size distributions. <i>Powder Technology</i> , 2012 , 218, 76-85	5.2	26
254	Ultrafast solid-liquid-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	4.9	26
253	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	3.9	26
252	Real-time solution of heat conduction in a finite slab for inverse analysis. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 762-768	4.1	26
251	Experimental investigation of thermal performance of the oscillating heat pipe for the grinding wheel. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 136, 911-923	4.9	25
250	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	2.6	25
249	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	4.9	25
248	Oscillatory double-diffusive convection in a horizontal cavity with Soret and Dufour effects. <i>International Journal of Thermal Sciences</i> , 2016 , 106, 57-69	4.1	25
247	Numerical Simulation of Steady Mixed Convection Around Two Heated Circular Cylinders in a Square Enclosure. <i>Heat Transfer Engineering</i> , 2016 , 37, 64-75	1.7	24
246	Experimental studies of organic Rankine cycle systems using scroll expanders with different suction volumes. <i>Journal of Cleaner Production</i> , 2019 , 218, 241-249	10.3	24
245	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	2.3	24
244	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	4.9	24
243	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,	3.3	24
242	Inverse Heat Conduction Using Measured Back Surface Temperature and Heat Flux. <i>Journal of Thermophysics and Heat Transfer</i> , 2010 , 24, 95-103	1.3	23
241	Simulation of granular packing of particles with different size distributions. <i>Computational Materials Science</i> , 2012 , 51, 172-180	3.2	22
240	Ultrashort laser pulse energy deposition in metal films with phase changes. <i>Applied Physics Letters</i> , 2011 , 98, 191105	3.4	22

239	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, 1194-1208	4.9	21
238	Numerical simulation on the thermal performance of hydraulic floor heating system with phase change materials. <i>Applied Thermal Engineering</i> , 2016 , 93, 900-907	5.8	21
237	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	5.8	21
236	Molecular dynamics simulation of water purification using zeolite MFI nanosheets. <i>Separation and Purification Technology</i> , 2020 , 234, 116080	8.3	21
235	Interatomic Potentials Transferability for Molecular Simulations: A Comparative Study for Platinum, Gold and Silver. <i>Scientific Reports</i> , 2018 , 8, 2424	4.9	20
234	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	4.9	20
233	Experimental study on anode components optimization for direct glucose fuel cells. <i>Energy</i> , 2019 , 176, 15-22	7.9	19
232	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	3.2	19
231	A radial integration boundary element method for solving transient heat conduction problems with heat sources and variable thermal conductivity. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018 , 73, 1-18	1.3	19
230	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	4.9	19
229	Flow and Heat Transfer in Micro Pin Fin Heat Sinks With Nano-Encapsulated Phase Change Materials. <i>Journal of Heat Transfer</i> , 2016 , 138,	1.8	19
228	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	4.1	19
227	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	4.1	19
226	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,	1.8	19
225	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	4.1	19
224	Flow and Heat Transfer of Nanoencapsulated Phase Change Material Slurry Past a Unconfined Square Cylinder. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	18
223	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	2.3	18
222	NUMERICAL SIMULATION OF CONDENSATION ON A CAPILLARY GROOVED STRUCTURE. <i>Numerical Heat Transfer; Part A: Applications</i> , 2001 , 39, 227-243	2.3	18

221	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	5.8	17
220	Inverse identification of boundary conditions in a scramjet combustor with a regenerative cooling system. <i>Applied Thermal Engineering</i> , 2018 , 134, 555-563	5.8	17
219	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	2.3	17
218	Hybrid Lattice Boltzmann and Finite Volume Method for Natural Convection. <i>Journal of Thermophysics and Heat Transfer</i> , 2014 , 28, 68-77	1.3	17
217	Analysis of melting of alloy powder bed with constant heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 2161-2169	4.9	17
216	Three-Dimensional Modeling of Laser Sintering of a Two-Component Metal Powder Layer on Top of Sintered Layers. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2007 , 129, 575-582	3.3	17
215	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	7.1	16
214	Numerical simulation of double diffusive mixed convection in an open enclosure with different cylinder locations. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 52, 33-45	5.8	16
213	Effect of Internal Wick Structure on Liquid-Vapor Oscillatory Flow and Heat Transfer in an Oscillating Heat Pipe. <i>Journal of Heat Transfer</i> , 2009 , 131,	1.8	16
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