

# Yuwen Zhang

## 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.

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	Asymmetric phenomenon of flow and mass transfer in symmetric cylindrical and semi-cylindrical shallow chambers. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 123, 105174	5.8	3
363	Bifurcation analysis of coupling thermosolutal convection induced by a thermal and solutal source in a horizontal cavity. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 126, 105455	5.8	1
362	Evaluation of alternative eutectic salt as heat transfer fluid for solar power tower coupling a supercritical CO <sub>2</sub> Brayton cycle from the viewpoint of system-level analysis. <i>Journal of Cleaner Production</i> , <b>2021</b> , 279, 123472	10.3	33
361	Advanced carbon sequestration by the hybrid system of photobioreactor and microbial fuel cell with novel photocatalytic porous framework. <i>Bioresource Technology</i> , <b>2021</b> , 333, 125182	11	4
360	Study of carbon dioxide sequestration and electricity generation by a new hybrid bioenergy system with the novelty catalyst. <i>Applied Thermal Engineering</i> , <b>2021</b> , 197, 117366	5.8	
359	Evaporation induced self-assembly of rough colloids: A multiscale simulation study. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 179, 121681	4.9	0
358	Experimental and Numerical Investigation on Fouling and Heat Transfer Performance of a Novel H-type Finned Heat Exchanger <b>2021</b> , 629-633		
357	Coupled optical and thermal performance of a fin-like molten salt receiver for the next-generation solar power tower. <i>Applied Energy</i> , <b>2020</b> , 272, 115079	10.7	30
356	Numerical simulation of oscillatory flow and heat transfer in pulsating heat pipes with multi-turns using OpenFOAM. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2020</b> , 77, 761-781	2.3	4
355	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> , <b>2020</b> , 152, 119488	4.9	21
354	Sublimation and Vapor Deposition <b>2020</b> , 323-353		
353	Modeling Multiphase Flow and Heat Transfer <b>2020</b> , 95-188		
352	Melting and Solidification <b>2020</b> , 257-321		
351	Fluid-Particle Flow and Heat Transfer <b>2020</b> , 623-686		
350	Two-Phase Flow and Heat Transfer <b>2020</b> , 535-621		
349	Interfacial Phenomena <b>2020</b> , 189-256		
348	Flow and Heat Transfer in Porous Media <b>2020</b> , 687-745		

347	Numerical simulation for three-dimensional flow in a vortex tube with different turbulence models. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2020</b> , 77, 121-133	2.3	1
346	Numerical simulation of non-Fourier heat conduction in fins by lattice Boltzmann method. <i>Applied Thermal Engineering</i> , <b>2020</b> , 166, 114670	5.8	8
345	Achievement of a novel porous non-noble-metal catalyst with excellent oxygen reduction reaction activity: Promoting the commercialization of alkaline fuel cells. <i>Journal of Cleaner Production</i> , <b>2020</b> , 249, 119314	10.3	13
344	A molecular dynamics study on interaction contributions of components in liquid-vapor systems between LiBr aqueous solutions and air during absorption. <i>Applied Thermal Engineering</i> , <b>2020</b> , 166, 114732	5.8	2
343	Numerical and experimental investigation of solar air collector with internal swirling flow. <i>Renewable Energy</i> , <b>2020</b> , 162, 2259-2271	8.1	5
342	Two-dimensional numerical model for predicting fouling shape growth based on immersed boundary method and lattice Boltzmann method. <i>Applied Thermal Engineering</i> , <b>2020</b> , 179, 115755	5.8	0
341	Performance of vertical axis water turbine with eye-shaped baffle for pico hydropower. <i>Frontiers in Energy</i> , <b>2020</b> , 1	2.6	2
340	Molecular dynamics simulation of water purification using zeolite MFI nanosheets. <i>Separation and Purification Technology</i> , <b>2020</b> , 234, 116080	8.3	21
339	A study of new method and comprehensive evaluation on the improved performance of solar power tower plant with the CO <sub>2</sub> -based mixture cycles. <i>Applied Energy</i> , <b>2019</b> , 256, 113837	10.7	10
338	Model evaluation of lithium bromide aqueous solution and characteristics of water transport behaviors in liquid-vapor systems by molecular dynamics. <i>International Journal of Refrigeration</i> , <b>2019</b> , 107, 165-173	3.8	3
337	A general method for predicting the bank thickness of a smelting furnace with phase change. <i>Applied Thermal Engineering</i> , <b>2019</b> , 162, 114219	5.8	1
336	A general and rapid method for performance evaluation of enhanced heat transfer techniques. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 145, 118780	4.9	10
335	Experimental studies of organic Rankine cycle systems using scroll expanders with different suction volumes. <i>Journal of Cleaner Production</i> , <b>2019</b> , 218, 241-249	10.3	24
334	Optical efficiency improvement of solar power tower by employing and optimizing novel fin-like receivers. <i>Energy Conversion and Management</i> , <b>2019</b> , 184, 219-234	10.6	26
333	Convection heat transfer with internal heat generation in porous media: Implementation of thermal lattice Boltzmann method. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2019</b> , 76, 101-114	2.3	1
332	A general approach for solving three-dimensional transient nonlinear inverse heat conduction problems in irregular complex structures. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 140, 909-917	4.9	7
331	Highly Dispersed Palladium Nanoparticles on Carbon-Decorated Porous Nickel Electrode: An Effective Strategy to Boost Direct Ethanol Fuel Cell up to 202 mW cm <sup>-2</sup> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11186-11193	8.3	35
330	Experimental study of the organic rankine cycle under different heat and cooling conditions. <i>Energy</i> , <b>2019</b> , 180, 678-688	7.9	15

329	Smoothed particle hydrodynamics simulation of granular system under cyclic compressions. <i>Powder Technology</i> , <b>2019</b> , 353, 84-97	5.2	2
328	High bond difference parameter-induced low thermal transmission in carbon allotropes with sp and sp hybridization. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 12611-12619	3.6	3
327	Fouling and thermal-hydraulic characteristics of aligned elliptical tube and honeycomb circular tube in flue gas heat exchangers. <i>Fuel</i> , <b>2019</b> , 251, 316-327	7.1	16
326	Experimental investigation of thermal performance of the oscillating heat pipe for the grinding wheel. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 136, 911-923	4.9	25
325	Numerical simulation of the growth characteristics of laser chemical vapor deposition of silicon carbide. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2019</b> , 75, 242-253	2.3	
324	Experimental study on anode components optimization for direct glucose fuel cells. <i>Energy</i> , <b>2019</b> , 176, 15-22	7.9	19
323	Thermodynamic performance analysis of different supercritical Brayton cycles using CO <sub>2</sub> -based binary mixtures in the molten salt solar power tower systems. <i>Energy</i> , <b>2019</b> , 173, 785-798	7.9	42
322	The investigation of thermo-economic performance and conceptual design for the miniaturized lead-cooled fast reactor composing supercritical CO <sub>2</sub> power cycle. <i>Energy</i> , <b>2019</b> , 173, 174-195	7.9	28
321	A half-analytical correlation of total melting time for shell-and-tube latent-heat thermal energy storage unit. <i>Applied Thermal Engineering</i> , <b>2019</b> , 161, 114176	5.8	6
320	Pulmonary lobar segmentation from computed tomography scans based on a statistical finite element analysis of lobe shape <b>2019</b> ,		2
319	Compact Scheme Based on the SIMPLER Algorithm for Steady Incompressible Flow Problems. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2019</b> , 33, 225-233	1.3	
318	Inverse identification of boundary conditions in a scramjet combustor with a regenerative cooling system. <i>Applied Thermal Engineering</i> , <b>2018</b> , 134, 555-563	5.8	17
317	Molecular dynamics simulation of the effect of oxygen-containing functional groups on the thermal conductivity of reduced graphene oxide. <i>Computational Materials Science</i> , <b>2018</b> , 148, 176-183	3.2	19
316	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> , <b>2018</b> , 221, 1-15	10.7	106
315	Improving temperature uniformity of a lithium-ion battery by intermittent heating method in cold climate. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 121, 275-281	4.9	39
314	Interatomic Potentials Transferability for Molecular Simulations: A Comparative Study for Platinum, Gold and Silver. <i>Scientific Reports</i> , <b>2018</b> , 8, 2424	4.9	20
313	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> , <b>2018</b> , 73, 1-18	1.3	19
312	Numerical simulation of complex flow and heat transfer induced by localized laser heating on a urethane-coated substrate. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2018</b> , 73, 63-77	1.3	

311	Optimizing thermal conductivity distribution for heat conduction problems with different optimization objectives. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 119, 343-354	4.9	3
310	The thermodynamic and cost-benefit-analysis of miniaturized lead-cooled fast reactor with supercritical CO <sub>2</sub> power cycle in the commercial market. <i>Progress in Nuclear Energy</i> , <b>2018</b> , 103, 135-150	2.3	27
309	A systematic comparison of different S-CO <sub>2</sub> Brayton cycle layouts based on multi-objective optimization for applications in solar power tower plants. <i>Applied Energy</i> , <b>2018</b> , 212, 109-121	10.7	90
308	Impacts of cone-structured interface and aperiodicity on nanoscale thermal transport in Si/Gesuperlattices. <i>Frontiers in Energy</i> , <b>2018</b> , 12, 137-142	2.6	0
307	Melting performance enhancement of phase change material by a limited amount of metal foam: Configurational optimization and economic assessment. <i>Applied Energy</i> , <b>2018</b> , 212, 868-880	10.7	74
306	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> , <b>2018</b> , 220, 447-454	10.7	56
305	A new radial integration polygonal boundary element method for solving heat conduction problems. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 123, 251-260	4.9	19
304	Economic evaluation of reverse osmosis desalination system coupled with tidal energy. <i>Frontiers in Energy</i> , <b>2018</b> , 12, 297-304	2.6	10
303	Temperature uniformity of a heated lithium-ion battery cell in cold climate. <i>Applied Thermal Engineering</i> , <b>2018</b> , 129, 148-154	5.8	38
302	Evolution to chaotic natural convection in a horizontal annulus with an internally slotted circle. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 95-108	4.9	9
301	Cryoprotective mechanism of using Ficoll for cell cryopreservation at non-cryogenic temperatures: A molecular dynamics study. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 127, 319-325	4.9	2
300	Atomistic insights into the exothermic self-sustained alloying of Al-shell/Ni-core nanoparticle triggered by laser irradiation. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 20398-20405	3.6	3
299	Celebration of Professor Adrian Bejan on his 70th birthday. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 1377-1378	4.9	
298	Design and application of an Electric Tail Rotor Drive Control (ETRDC) for helicopters with performance tests. <i>Chinese Journal of Aeronautics</i> , <b>2018</b> , 31, 1894-1901	3.7	5
297	Multiscale Investigation of Femtosecond Laser Pulses Processing Aluminum in Burst Mode. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2018</b> , 22, 324-347	3.7	5
296	NUMERICAL INVESTIGATION OF ICING EFFECTS ON VORTEX SHEDDING IN A CASCADE OF STATOR BLADES. <i>Heat Transfer Research</i> , <b>2018</b> , 49, 1-14	3.9	4
295	Molecular dynamics simulation of cross-linked epoxy resin and its interaction energy with graphene under two typical force fields. <i>Computational Materials Science</i> , <b>2018</b> , 143, 240-247	3.2	42
294	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> , <b>2018</b> , 118, 997-1011	4.9	69

293	Improving wettability and preventing Li-ion batteries from thermal runaway using microchannels. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 118, 911-918	4.9	28
292	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> , <b>2018</b> , 126, 1111-1119	4.9	13
291	Reducing greenhouse gas emissions in Sandia methane-air flame by using a biofuel. <i>Renewable Energy</i> , <b>2018</b> , 128, 313-323	8.1	13
290	Thermal analysis of solar central receiver tube with porous inserts and non-uniform heat flux. <i>Applied Energy</i> , <b>2017</b> , 185, 1152-1161	10.7	46
289	Simulation of real time particle deposition and removal processes on tubes by coupled numerical method. <i>Applied Energy</i> , <b>2017</b> , 185, 2181-2193	10.7	43
288	Analysis of phase drift based on uncertainty analysis in electro-thermal excited MEMS resonant sensor. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 2043-2053	1.7	3
287	Lattice Boltzmann Method Simulation of Natural Convection Heat Transfer in Horizontal Annulus. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2017</b> , 31, 700-711	1.3	3
286	Analysis of chaotic flow in a 2D multi-turn closed-loop pulsating heat pipe. <i>Applied Thermal Engineering</i> , <b>2017</b> , 126, 1069-1076	5.8	26
285	Cumulative effects of using pin fin heat sink and porous metal foam on thermal management of lithium-ion batteries. <i>Applied Thermal Engineering</i> , <b>2017</b> , 118, 375-384	5.8	43
284	Electron-Phonon Coupled Heat Transfer and Thermal Response Induced by Femtosecond Laser Heating of Gold. <i>Journal of Heat Transfer</i> , <b>2017</b> , 139,	1.8	2
283	Design and optimization of slit-resonant beam in a MEMS pressure sensor based on uncertainty analysis. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 5545-5559	1.7	6
282	Hybrid atomistic-continuum simulation of nucleate boiling with a domain re-decomposition method. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2017</b> , 71, 217-235	1.3	3
281	Numerical simulations of forced convection across a single tube to evaluate applicability of the DNS, LES and RSM methods. <i>Applied Thermal Engineering</i> , <b>2017</b> , 123, 123-130	5.8	4
280	Economical evaluation and optimization of organic Rankine cycle with mixture working fluids using R245fa as flame retardant. <i>Applied Thermal Engineering</i> , <b>2017</b> , 113, 1056-1070	5.8	54
279	Uncertainty analysis of thermal damage to living biological tissues by laser irradiation based on a generalized dual-phase lag model. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2017</b> , 71, 693-706	2.3	9
278	Low thermal conductivity in Si/Ge hetero-twinned superlattices. <i>RSC Advances</i> , <b>2017</b> , 7, 29959-29965	3.7	8
277	Analysis and numerical tests of lifting relations to reconstruct LBM distribution functions for coupling simulations. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 107, 945-955	4.9	5
276	Multiscale modeling of femtosecond laser irradiation on a copper film with electron thermal conductivity from ab initio calculation. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2017</b> , 71, 128-136	2.3	5

275	Melting and thermal ablation of a silver film induced by femtosecond laser heating: a multiscale modeling approach. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	10
274	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> , <b>2017</b> , 205, 1394-1407	10.7	46
273	An Improved Flexible Solar Thermal Energy Integration Process for Enhancing the Coal-Based Energy Efficiency and NOx Removal Effectiveness in Coal-Fired Power Plants under Different Load Conditions. <i>Energies</i> , <b>2017</b> , 10, 1485	3.1	13
272	Pore-scale numerical simulation of fully coupled heat transfer process in porous volumetric solar receiver. <i>Energy</i> , <b>2017</b> , 140, 1267-1275	7.9	62
271	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> , <b>2017</b> , 126, 737-761	5.8	68
270	The development technology and applications of supercritical CO2 power cycle in nuclear energy, solar energy and other energy industries. <i>Applied Thermal Engineering</i> , <b>2017</b> , 126, 255-275	5.8	186
269	Analysis of wind turbine blades aeroelastic performance under yaw conditions. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2017</b> , 171, 273-287	3.7	36
268	Thermal Conductivity of Diamond/SiC Nano-Polycrystalline Composites and Phonon Scattering at Interfaces. <i>ACS Omega</i> , <b>2017</b> , 2, 2344-2350	3.9	8
267	Thermal performance analysis of a parabolic trough solar collector using supercritical CO2 as heat transfer fluid under non-uniform solar flux. <i>Applied Thermal Engineering</i> , <b>2017</b> , 115, 1255-1265	5.8	128
266	Multi-objective optimization of the solar absorptivity distribution inside a cavity solar receiver for solar power towers. <i>Solar Energy</i> , <b>2017</b> , 158, 247-258	6.8	32
265	Numerical Simulation of Steady Mixed Convection Around Two Heated Circular Cylinders in a Square Enclosure. <i>Heat Transfer Engineering</i> , <b>2016</b> , 37, 64-75	1.7	24
264	Molecular dynamics simulation of condensation on nanostructured surface in a confined space. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	45
263	Effect of nanostructure on rapid boiling of water on a hot copper plate: a molecular dynamics study. <i>Heat and Mass Transfer</i> , <b>2016</b> , 52, 1469-1478	2.2	38
262	Ab initio determination of effective electron-phonon coupling factor in copper. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2016</b> , 380, 1551-1555	2.3	12
261	Numerical investigation of chaotic flow in a 2D closed-loop pulsating heat pipe. <i>Applied Thermal Engineering</i> , <b>2016</b> , 98, 617-627	5.8	44
260	Flow and Heat Transfer in Micro Pin Fin Heat Sinks With Nano-Encapsulated Phase Change Materials. <i>Journal of Heat Transfer</i> , <b>2016</b> , 138,	1.8	19
259	Continuum-atomistic simulation of picosecond laser heating of copper with electron heat capacity from ab initio calculation. <i>Chemical Physics Letters</i> , <b>2016</b> , 648, 109-113	2.5	7
258	Numerical simulation of transient forced convection in a square enclosure containing two heated circular cylinders. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2016</b> , 26, 307-327	4.5	10



257	Lattice Boltzmann method simulation of 3-D natural convection with double MRT model. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 94, 222-238	4.9	43
256	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> , <b>2016</b> , 89, 93-107	8.7	63
255	Numerical simulation on the thermal performance of hydraulic floor heating system with phase change materials. <i>Applied Thermal Engineering</i> , <b>2016</b> , 93, 900-907	5.8	21
254	Nonlinear Characteristics of a Sudden Expansion Followed by Sudden Contraction Channel <b>2016</b> ,		1
253	Nonlinear Analysis of Chaotic Flow in a Three-Dimensional Closed-Loop Pulsating Heat Pipe. <i>Journal of Heat Transfer</i> , <b>2016</b> , 138,	1.8	13
252	Analysis of Cohesive Microsized Particle Packing Structure Using History-Dependent Contact Models. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2016</b> , 138,	3.3	5
251	Temperature Uniformity Improvement of an Air-Cooled High-Power Lithium-Ion Battery Using Metal and Nonmetal Foams. <i>Journal of Heat Transfer</i> , <b>2016</b> , 138,	1.8	11
250	Evaluation of copper, aluminum, and nickel interatomic potentials on predicting the elastic properties. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 244304	2.5	43
249	Uncertainty Analysis of Melting and Resolidification of Gold Film Irradiated by Nano- to Femtosecond Lasers Using Stochastic Method. <i>Journal of Heat Transfer</i> , <b>2016</b> , 138,	1.8	2
248	Effects of Size of Microchannels on Thermo-Electrical Performance of an Internally Cooled Li-Ion Battery Cell. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2016</b> , 13,	2	2
247	A hybrid model for explaining the short-term dynamics of energy efficiency of China's thermal power plants. <i>Applied Energy</i> , <b>2016</b> , 169, 738-747	10.7	50
246	Oscillatory double-diffusive convection in a horizontal cavity with Soret and Dufour effects. <i>International Journal of Thermal Sciences</i> , <b>2016</b> , 106, 57-69	4.1	25
245	Melt flow and heat transfer in laser drilling. <i>International Journal of Thermal Sciences</i> , <b>2016</b> , 107, 141-152	4.1	12
244	Improved finite difference method with a compact correction term for solving Poisson's equations. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2016</b> , 70, 393-405	1.3	10
243	Double MRT thermal lattice Boltzmann method for simulating natural convection of low Prandtl number fluids. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2016</b> , 26, 1889-1909	4.5	14
242	Effects of slotted structures on the nonlinear characteristics of natural convection in a cylinder with an internal concentric slotted annulus. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2016</b> , 70, 447-459	2.3	7
241	Investigation on Heat Transfer Mechanism of Ultrashort Laser Interaction with Metals. <i>International Journal of Thermophysics</i> , <b>2015</b> , 36, 183-203	2.1	1
240	A Nonequilibrium Thermal Model for Direct Metal Laser Sintering. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 67, 249-267	2.3	7



239	Thermal management improvement of an air-cooled high-power lithium-ion battery by embedding metal foam. <i>Journal of Power Sources</i> , <b>2015</b> , 296, 305-313	8.9	86
238	Nonlinear dynamics study based on uncertainty analysis in electro-thermal excited MEMS resonant sensor. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 232, 103-114	3.9	15
237	A graphical criterion for working fluid selection and thermodynamic system comparison in waste heat recovery. <i>Applied Thermal Engineering</i> , <b>2015</b> , 89, 772-782	5.8	43
236	Molecular Dynamics Simulation on Rapid Boiling of Thin Water Films on Cone-Shaped Nanostructure Surfaces. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2015</b> , 19, 17-30	3.7	36
235	A Predictive Model for Temperature Rise of Spindle Bearing Integrated System. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2015</b> , 137,	3.3	7
234	Numerical Simulation of Melting Problems Using the Lattice Boltzmann Method with the Interfacial Tracking Method. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 68, 1175-1197	2.3	24
233	Identification of two-phase water-air flow patterns in a vertical pipe using fuzzy logic and genetic algorithm. <i>Applied Thermal Engineering</i> , <b>2015</b> , 85, 195-206	5.8	17
232	Coupling Diffusive Effects on Thermosolutal Buoyancy Convection in a Horizontal Cavity. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 68, 583-597	2.3	8
231	Numerical simulation on flow and heat transfer of fin-and-tube heat exchanger with longitudinal vortex generators. <i>International Journal of Thermal Sciences</i> , <b>2015</b> , 92, 85-96	4.1	45
230	Corrigendum to Identification of two-phase water-air flow patterns in a vertical pipe using fuzzy logic and genetic algorithm [Appl Thermal Eng 85 (2015) 195-206]. <i>Applied Thermal Engineering</i> , <b>2015</b> , 91, 963	5.8	
229	Analysis of performances of a manifold microchannel heat sink with nanofluids. <i>International Journal of Thermal Sciences</i> , <b>2015</b> , 89, 305-313	4.1	35
228	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> , <b>2015</b> , 83, 136-145	4.9	28
227	Design and optimization based on uncertainty analysis in electro-thermal excited MEMS resonant sensor. <i>Microsystem Technologies</i> , <b>2015</b> , 21, 757-771	1.7	9
226	A multiscale nonequilibrium model for melting of metal powder bed subjected to constant heat flux. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 80, 309-318	4.9	6
225	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> , <b>2015</b> , 273, 431-439	8.9	128
224	Flow and Thermal Performance of a Water-Cooled Periodic Transversal Elliptical Microchannel Heat Sink for Chip Cooling. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 3061-6	1.3	6
223	Internal cooling of a lithium-ion battery using electrolyte as coolant through microchannels embedded inside the electrodes. <i>Journal of Power Sources</i> , <b>2015</b> , 293, 458-466	8.9	76
222	Atomistic-Continuum Hybrid Simulation of Heat Transfer Between Argon Flow and Copper Plates. <i>Journal of Heat Transfer</i> , <b>2015</b> , 137,	1.8	2

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