

Yuwen Zhang

List of Publications by Year in descending order

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436
papers

12,014
citations

20817

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46799

89
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438
all docs

438
docs citations

438
times ranked

6989
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Charging Control Method for Electric Vehicle-to-Vehicle Energy Interaction Devices. IEEE Transactions on Transportation Electrification, 2023, 9, 4941-4950.	7.8	3
2	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. Journal of Cleaner Production, 2021, 279, 123472.	9.3	70
3	Asymmetric phenomenon of flow and mass transfer in symmetric cylindrical and semi-cylindrical shallow chambers. International Communications in Heat and Mass Transfer, 2021, 123, 105174.	5.6	5
4	A Multiscale Method for Coupled Steady-State Heat Conduction and Radiative Transfer Equations in Composite Materials. Journal of Heat Transfer, 2021, , .	2.1	2
5	Bifurcation analysis of coupling thermosolutal convection induced by a thermal and solutal source in a horizontal cavity. International Communications in Heat and Mass Transfer, 2021, 126, 105455.	5.6	4
6	Advanced carbon sequestration by the hybrid system of photobioreactor and microbial fuel cell with novel photocatalytic porous framework. Bioresource Technology, 2021, 333, 125182.	9.6	18
7	Study of carbon dioxide sequestration and electricity generation by a new hybrid bioenergy system with the novelty catalyst. Applied Thermal Engineering, 2021, 197, 117366.	6.0	2
8	Evaporation induced self-assembly of rough colloids: A multiscale simulation study. International Journal of Heat and Mass Transfer, 2021, 179, 121681.	4.8	4
9	Experimental and Numerical Investigation on Fouling and Heat Transfer Performance of a Novel H-type Finned Heat Exchanger. , 2021, , 629-633.		0
10	Molecular dynamics simulation of water purification using zeolite MFI nanosheets. Separation and Purification Technology, 2020, 234, 116080.	7.9	34
11	Numerical simulation for three-dimensional flow in a vortex tube with different turbulence models. Numerical Heat Transfer; Part A: Applications, 2020, 77, 121-133.	2.1	6
12	Numerical simulation of non-Fourier heat conduction in fins by lattice Boltzmann method. Applied Thermal Engineering, 2020, 166, 114670.	6.0	16
13	Achievement of a novel porous non-noble-metal catalyst with excellent oxygen reduction reaction activity: Promoting the commercialization of alkaline fuel cells. Journal of Cleaner Production, 2020, 249, 119314.	9.3	17
14	A molecular dynamics study on interaction contributions of components in liquid-vapor systems between LiBr aqueous solutions and air during absorption. Applied Thermal Engineering, 2020, 166, 114732.	6.0	3
15	Numerical and experimental investigation of solar air collector with internal swirling flow. Renewable Energy, 2020, 162, 2259-2271.	8.9	22
16	Two-dimensional numerical model for predicting fouling shape growth based on immersed boundary method and lattice Boltzmann method. Applied Thermal Engineering, 2020, 179, 115755.	6.0	9
17	Performance of vertical axis water turbine with eye-shaped baffle for pico hydropower. Frontiers in Energy, 2020, , 1.	2.3	3
18	Coupled optical and thermal performance of a fin-like molten salt receiver for the next-generation solar power tower. Applied Energy, 2020, 272, 115079.	10.1	50

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19	Numerical simulation of oscillatory flow and heat transfer in pulsating heat pipes with multi-turns using OpenFOAM. Numerical Heat Transfer; Part A: Applications, 2020, 77, 761-781.	2.1	10
20	Fouling potential prediction and multi-objective optimization of a flue gas heat exchanger using neural networks and genetic algorithms. International Journal of Heat and Mass Transfer, 2020, 152, 119488.	4.8	43
21	Modeling Multiphase Flow and Heat Transfer. , 2020, , 95-188.		0
22	Melting and Solidification. , 2020, , 257-321.		0
23	Fluid-Particle Flow and Heat Transfer. , 2020, , 623-686.		0
24	Two-Phase Flow and Heat Transfer. , 2020, , 535-621.		1
25	Interfacial Phenomena. , 2020, , 189-256.		0
26	Flow and Heat Transfer in Porous Media. , 2020, , 687-745.		0
27	Thermal Management of Li-Ion Batteries by Embedding Microgrooves Inside the Electrodes: A Thermal Lattice Boltzmann Method Study. Journal of Heat Transfer, 2020, 142, .	2.1	5
28	Intrinsic Thermal Couples for Measurement in High Temperature and High Heat Flux Environment. , 2020, , .		1
29	A half-analytical correlation of total melting time for shell-and-tube latent-heat thermal energy storage unit. Applied Thermal Engineering, 2019, 161, 114176.	6.0	16
30	A study of new method and comprehensive evaluation on the improved performance of solar power tower plant with the CO2-based mixture cycles. Applied Energy, 2019, 256, 113837.	10.1	21
31	Model evaluation of lithium bromide aqueous solution and characteristics of water transport behaviors in liquid-vapor systems by molecular dynamics. International Journal of Refrigeration, 2019, 107, 165-173.	3.4	5
32	A general method for predicting the bank thickness of a smelting furnace with phase change. Applied Thermal Engineering, 2019, 162, 114219.	6.0	6
33	A general and rapid method for performance evaluation of enhanced heat transfer techniques. International Journal of Heat and Mass Transfer, 2019, 145, 118780.	4.8	19
34	Experimental studies of organic Rankine cycle systems using scroll expanders with different suction volumes. Journal of Cleaner Production, 2019, 218, 241-249.	9.3	36
35	Optical efficiency improvement of solar power tower by employing and optimizing novel fin-like receivers. Energy Conversion and Management, 2019, 184, 219-234.	9.2	34
36	Convection heat transfer with internal heat generation in porous media: Implementation of thermal lattice Boltzmann method. Numerical Heat Transfer; Part A: Applications, 2019, 76, 101-114.	2.1	7

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37	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> , 2019, 140, 909-917.	4.8	20
38	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.	6.7	52
39	Experimental study of the organic rankine cycle under different heat and cooling conditions. <i>Energy</i> , 2019, 180, 678-688.	8.8	23
40	Smoothed particle hydrodynamics simulation of granular system under cyclic compressions. <i>Powder Technology</i> , 2019, 353, 84-97.	4.2	4
41	High bond difference parameter-induced low thermal transmission in carbon allotropes with sp ² and sp ³ hybridization. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12611-12619.	2.8	3
42	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.	6.4	24
43	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.	4.8	49
44	Numerical simulation of the growth characteristics of laser chemical vapor deposition of silicon carbide. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 75, 242-253.	2.1	0
45	Experimental study on anode components optimization for direct glucose fuel cells. <i>Energy</i> , 2019, 176, 15-22.	8.8	28
46	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.	8.8	74
47	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.	8.8	66
48	Compact Scheme Based on the SIMPLER Algorithm for Steady Incompressible Flow Problems. <i>Journal of Thermophysics and Heat Transfer</i> , 2019, 33, 225-233.	1.6	0
49	Pulmonary lobar segmentation from computed tomography scans based on a statistical finite element analysis of lobe shape. , 2019, , .		3
50	Flowing Electrolyte As Coolant Inside the Microgrooves Embedded in the Electrodes: A Novel Thermal Management of Li-Ion Batteries. , 2019, , .		0
51	Controlling Evaporation Induced Self-Assembly of Polymeric Nanoparticles: A VOF-DPD Study. , 2019, , .		0
52	Inverse identification of boundary conditions in a scramjet combustor with a regenerative cooling system. <i>Applied Thermal Engineering</i> , 2018, 134, 555-563.	6.0	23
53	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.	3.0	30
54	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.	10.1	173

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55	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.	4.8	64
56	Interatomic Potentials Transferability for Molecular Simulations: A Comparative Study for Platinum, Gold and Silver. <i>Scientific Reports</i> , 2018, 8, 2424.	3.3	30
57	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.	0.9	21
58	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> , 2018, 73, 63-77.	0.9	0
59	Optimizing thermal conductivity distribution for heat conduction problems with different optimization objectives. <i>International Journal of Heat and Mass Transfer</i> , 2018, 119, 343-354.	4.8	10
60	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.	2.9	45
61	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.	10.1	152
62	Impacts of cone-structured interface and aperiodicity on nanoscale thermal transport in Si/Gesuperlattices. <i>Frontiers in Energy</i> , 2018, 12, 137-142.	2.3	1
63	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.	10.1	143
64	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.	10.1	102
65	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.	4.8	31
66	Economic evaluation of reverse osmosis desalination system coupled with tidal energy. <i>Frontiers in Energy</i> , 2018, 12, 297-304.	2.3	21
67	Temperature uniformity of a heated lithium-ion battery cell in cold climate. <i>Applied Thermal Engineering</i> , 2018, 129, 148-154.	6.0	62
68	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.	3.0	69
69	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.	4.8	109
70	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.	4.8	39
71	Molecular Dynamics Simulation of Explosive Boiling on Concave Nanostructured Surface. , 2018, , .		0
72	Multiscale Investigation of Thickness Dependent Melting Thresholds of Nickel Film Under Femtosecond Laser Heating. , 2018, , .		0

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73	Numerical solution of multi-dimensional transient nonlinear heat conduction problems with heat sources by an extended element differential method. International Journal of Heat and Mass Transfer, 2018, 126, 1111-1119.	4.8	28
74	Reducing greenhouse gas emissions in Sandia methane-air flame by using a biofuel. Renewable Energy, 2018, 128, 313-323.	8.9	21
75	Evolution to chaotic natural convection in a horizontal annulus with an internally slotted circle. International Journal of Heat and Mass Transfer, 2018, 126, 95-108.	4.8	12
76	Cryoprotective mechanism of using Ficoll for cell cryopreservation at non-cryogenic temperatures: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2018, 127, 319-325.	4.8	6
77	Atomistic insights into the exothermic self-sustained alloying of Al-shell/Ni-core nanoparticle triggered by laser irradiation. Physical Chemistry Chemical Physics, 2018, 20, 20398-20405.	2.8	5
78	Film Cooling Performance on the Trailing Edge Cutback of Turbine Blade with Various Slot Inner Angles. , 2018, , .		0
79	Celebration of Professor Adrian Bejan on his 70th birthday. International Journal of Heat and Mass Transfer, 2018, 126, 1377-1378.	4.8	1
80	Design and application of an Electric Tail Rotor Drive Control (ETRDC) for helicopters with performance tests. Chinese Journal of Aeronautics, 2018, 31, 1894-1901.	5.3	9
81	Multiscale Investigation of Femtosecond Laser Pulses Processing Aluminum in Burst Mode. Nanoscale and Microscale Thermophysical Engineering, 2018, 22, 324-347.	2.6	12
82	NUMERICAL INVESTIGATION OF ICING EFFECTS ON VORTEX SHEDDING IN A CASCADE OF STATOR BLADES. Heat Transfer Research, 2018, 49, 1-14.	1.6	5
83	IMPROVING ELECTROLYTE TRANSPORT INSIDE THE LI-ION POROUS ELECTRODES USING MICROCHANNELS. , 2018, , .		1
84	CHARACTERISTIC INVESTIGATION OF STATIC LIQUID DESICCANT DEHUMIDIFICATION PROCESS BY MOLECULAR DYNAMICS. , 2018, , .		0
85	Sub-surface Layer of Silicon Single Crystal Periodically Nanostructured by Near-infrared Femtosecond Laser Pulses. , 2018, , .		0
86	Thermal analysis of solar central receiver tube with porous inserts and non-uniform heat flux. Applied Energy, 2017, 185, 1152-1161.	10.1	62
87	Simulation of real time particle deposition and removal processes on tubes by coupled numerical method. Applied Energy, 2017, 185, 2181-2193.	10.1	57
88	Analysis of phase drift based on uncertainty analysis in electro-thermal excited MEMS resonant sensor. Microsystem Technologies, 2017, 23, 2043-2053.	2.0	3
89	Lattice Boltzmann Method Simulation of Natural Convection Heat Transfer in Horizontal Annulus. Journal of Thermophysics and Heat Transfer, 2017, 31, 700-711.	1.6	5
90	Analysis of chaotic flow in a 2D multi-turn closed-loop pulsating heat pipe. Applied Thermal Engineering, 2017, 126, 1069-1076.	6.0	39

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91	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.	6.0	66
92	Electron-Phonon Coupled Heat Transfer and Thermal Response Induced by Femtosecond Laser Heating of Gold. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.1	6
93	Design and optimization of slit-resonant beam in a MEMS pressure sensor based on uncertainty analysis. <i>Microsystem Technologies</i> , 2017, 23, 5545-5559.	2.0	10
94	Hybrid atomistic-continuum simulation of nucleate boiling with a domain re-decomposition method. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 71, 217-235.	0.9	6
95	Numerical simulations of forced convection across a single tube to evaluate applicability of the DNS, LES and RSM methods. <i>Applied Thermal Engineering</i> , 2017, 123, 123-130.	6.0	7
96	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.	6.0	65
97	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> , 2017, 71, 693-706.	2.1	11
98	Hybrid Atomistic-Continuum Simulation of Nanostructure Defect-Induced Bubble Growth. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.1	2
99	Low thermal conductivity in Si/Ge hetero-twinned superlattices. <i>RSC Advances</i> , 2017, 7, 29959-29965.	3.6	10
100	Analysis and numerical tests of lifting relations to reconstruct LBM distribution functions for coupling simulations. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 945-955.	4.8	7
101	Multiscale modeling of femtosecond laser irradiation on a copper film with electron thermal conductivity from <i>ab initio</i> calculation. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 128-136.	2.1	11
102	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> , 2017, 123, 1.	2.3	21
103	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.	10.1	61
104	Multiscale Simulation of Surface Nanostructure Effect on Bubble Nucleation. , 2017, , .		1
105	Pore-scale numerical simulation of fully coupled heat transfer process in porous volumetric solar receiver. <i>Energy</i> , 2017, 140, 1267-1275.	8.8	82
106	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.	6.0	95
107	The development technology and applications of supercritical CO2 power cycle in nuclear energy, solar energy and other energy industries. <i>Applied Thermal Engineering</i> , 2017, 126, 255-275.	6.0	301
108	Analysis of wind turbine blades aeroelastic performance under yaw conditions. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 171, 273-287.	3.9	54

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109	Thermal Conductivity of Diamond/SiC Nano-Polycrystalline Composites and Phonon Scattering at Interfaces. ACS Omega, 2017, 2, 2344-2350.	3.5	14
110	Thermal performance analysis of a parabolic trough solar collector using supercritical CO ₂ as heat transfer fluid under non-uniform solar flux. Applied Thermal Engineering, 2017, 115, 1255-1265.	6.0	182
111	Heat Conduction in Si/Ge Superlattices: A Molecular Dynamics Study. , 2017, , .		0
112	Multi-Physics Simulation of Complex Flow and Phase Change Induced by a Localized Laser Irradiation on a Urethane-Coated Stainless Steel Substrate. , 2017, , .		0
113	Molecular Dynamics Investigation of Phase Change Induced by Ultrafast Laser Irradiation. , 2017, , .		0
114	Numerical and Experimental Investigations on Longitudinal Vortex Generator for Heat Transfer Enhancement in Rectangular Channel. , 2017, , .		0
115	An Improved Flexible Solar Thermal Energy Integration Process for Enhancing the Coal-Based Energy Efficiency and NO _x Removal Effectiveness in Coal-Fired Power Plants under Different Load Conditions. Energies, 2017, 10, 1485.	3.1	15
116	Multi-objective optimization of the solar absorptivity distribution inside a cavity solar receiver for solar power towers. Solar Energy, 2017, 158, 247-258.	6.1	36
117	HEAT TRANSFER ENHANCEMENT IN LATENT HEAT THERMAL ENERGY STORAGE SYSTEM. Journal of Enhanced Heat Transfer, 2017, 24, 173-182.	1.1	2
118	MASS BALANCE IN LATTICE BOLTZMANN METHOD WITH DIRICHLET VELOCITY BOUNDARY CONDITION. Heat Transfer Research, 2017, 48, 811-826.	1.6	0
119	NUMERICAL ANALYSIS OF NO _x PRODUCTION UNDER THE AIR STAGED COMBUSTION. Frontiers in Heat and Mass Transfer, 2017, 8, .	0.2	3
120	Nonlinear Characteristics of a Sudden Expansion Followed by Sudden Contraction Channel. , 2016, , .		1
121	Numerical Simulation of Combustion Performance of Pulverized Coal Burner. , 2016, , .		0
122	Lattice Boltzmann Method Simulation of 3-D Melting Using Double MRT Model With Interfacial Tracking Method. , 2016, , .		0
123	Numerical Analysis of Influence of SOFA on NO _x Emissions for Pulverized Coal Boiler. , 2016, , .		0
124	Nonlinear Analysis of Chaotic Flow in a Three-Dimensional Closed-Loop Pulsating Heat Pipe. Journal of Heat Transfer, 2016, 138, .	2.1	16
125	Thermoelectric Effects of Size of Microchannels on an Internally Cooled Li-Ion Battery Cell. , 2016, , .		0
126	Analysis of Cohesive Microsized Particle Packing Structure Using History-Dependent Contact Models. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	2.2	6

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127	Numerical Analysis of the Natural Convection in a Cylinder With an Internal Slotted Annulus. , 2016, , .		0
128	Temperature Uniformity Improvement of an Air-Cooled High-Power Lithium-Ion Battery Using Metal and Nonmetal Foams. Journal of Heat Transfer, 2016, 138, .	2.1	19
129	Numerical Simulation of Jamming Transition in Granular System Under Cyclic Compression Using Smooth Particle Hydrodynamics. , 2016, , .		0
130	Evaluation of copper, aluminum, and nickel interatomic potentials on predicting the elastic properties. Journal of Applied Physics, 2016, 119, .	2.5	65
131	Uncertainty Analysis of Melting and Resolidification of Gold Film Irradiated by Nano- to Femtosecond Lasers Using Stochastic Method. Journal of Heat Transfer, 2016, 138, .	2.1	3
132	Numerical Simulation of Nonlinear Flow and Heat Transfer in a Sudden Expansion and Contraction Channel. , 2016, , .		0
133	Numerical Simulation of Flow and Heat Transfer in Rectangular Channel With Different Aspect Ratios. , 2016, , .		0
134	Effects of Size of Microchannels on Thermo-Electrical Performance of an Internally Cooled Li-Ion Battery Cell. Journal of Electrochemical Energy Conversion and Storage, 2016, 13, .	2.1	5
135	Effects of Beam Size and Pulse Duration on the Laser Drilling Process. , 2016, , .		3
136	A hybrid model for explaining the short-term dynamics of energy efficiency of China's thermal power plants. Applied Energy, 2016, 169, 738-747.	10.1	56
137	Oscillatory double-diffusive convection in a horizontal cavity with Soret and Dufour effects. International Journal of Thermal Sciences, 2016, 106, 57-69.	4.9	35
138	Melt flow and heat transfer in laser drilling. International Journal of Thermal Sciences, 2016, 107, 141-152.	4.9	19
139	Improved finite difference method with a compact correction term for solving Poisson's equations. Numerical Heat Transfer, Part B: Fundamentals, 2016, 70, 393-405.	0.9	12
140	Double MRT thermal lattice Boltzmann method for simulating natural convection of low Prandtl number fluids. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 1889-1909.	2.8	16
141	Effects of slotted structures on the nonlinear characteristics of natural convection in a cylinder with an internal concentric slotted annulus. Numerical Heat Transfer; Part A: Applications, 2016, 70, 447-459.	2.1	0
142	Dynamic compensation of temperature sensors using a continuum model. , 2016, , .		1
143	Numerical Investigation of Evaporation Induced Self-Assembly of Sub-Micron Particles Suspended in Water. , 2016, , .		0
144	Molecular dynamics simulation of condensation on nanostructured surface in a confined space. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	57

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145	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.	2.1	57
146	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.	2.1	21
147	Numerical investigation of chaotic flow in a 2D closed-loop pulsating heat pipe. <i>Applied Thermal Engineering</i> , 2016, 98, 617-627.	6.0	65
148	Flow and Heat Transfer in Micro Pin Fin Heat Sinks With Nano-Encapsulated Phase Change Materials. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	30
149	Continuum-atomistic simulation of picosecond laser heating of copper with electron heat capacity from ab initio calculation. <i>Chemical Physics Letters</i> , 2016, 648, 109-113.	2.6	14
150	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> , 2016, 26, 307-327.	2.8	11
151	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.	4.8	65
152	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.	8.9	74
153	Numerical simulation on the thermal performance of hydraulic floor heating system with phase change materials. <i>Applied Thermal Engineering</i> , 2016, 93, 900-907.	6.0	29
154	Numerical Simulation of Steady Mixed Convection Around Two Heated Circular Cylinders in a Square Enclosure. <i>Heat Transfer Engineering</i> , 2016, 37, 64-75.	1.9	31
155	Uncertainty Analysis of Melting and Resolidification of Gold Film Irradiated by Nano- to Femtosecond Lasers Using Stochastic Method. , 2016, , .		0
156	Flow and Thermal Performance of a Water-Cooled Periodic Transversal Elliptical Microchannel Heat Sink for Chip Cooling. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3061-3066.	0.9	8
157	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.	7.8	115
158	Atomistic-Continuum Hybrid Simulation of Heat Transfer Between Argon Flow and Copper Plates. <i>Journal of Heat Transfer</i> , 2015, 137, .	2.1	4
159	Effects of mass transfer time relaxation parameters on condensation in a thermosyphon. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 5497-5505.	1.5	33
160	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.	2.1	22
161	Investigation on Heat Transfer Mechanism of Ultrashort Laser Interaction with Metals. <i>International Journal of Thermophysics</i> , 2015, 36, 183-203.	2.1	1
162	A Nonequilibrium Thermal Model for Direct Metal Laser Sintering. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 67, 249-267.	2.1	7

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163	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.	7.8	122
164	Nonlinear dynamics study based on uncertainty analysis in electro-thermal excited MEMS resonant sensor. <i>Sensors and Actuators A: Physical</i> , 2015, 232, 103-114.	4.1	18
165	A graphical criterion for working fluid selection and thermodynamic system comparison in waste heat recovery. <i>Applied Thermal Engineering</i> , 2015, 89, 772-782.	6.0	50
166	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.	2.6	51
167	A Predictive Model for Temperature Rise of Spindle-Bearing Integrated System. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	2.2	10
168	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.	2.1	31
169	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.	6.0	24
170	Coupling-Diffusive Effects on Thermosolutal Buoyancy Convection in a Horizontal Cavity. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 583-597.	2.1	10
171	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.	4.9	56
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