

Zeng-Yao Li

List of Publications by Year in descending order

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50
papers

980
citations

430754

18
h-index

477173

29
g-index

50
all docs

50
docs citations

50
times ranked

675
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigations on fully-developed mixed turbulent convection in dimpled parabolic trough receiver tubes. <i>Applied Thermal Engineering</i> , 2017, 114, 1287-1299.	3.0	119
2	Numerical Study on Heat Transfer Enhancement in a Receiver Tube of Parabolic Trough Solar Collector with Dimples, Protrusions and Helical Fins. <i>Energy Procedia</i> , 2015, 69, 1306-1316.	1.8	95
3	The influence of gaseous heat conduction to the effective thermal conductivity of nano-porous materials. <i>International Communications in Heat and Mass Transfer</i> , 2015, 68, 158-161.	2.9	54
4	A theoretical and numerical study on the gas-contributed thermal conductivity in aerogel. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 1982-1990.	2.5	44
5	A multi-level fractal model for the effective thermal conductivity of silica aerogel. <i>Journal of Non-Crystalline Solids</i> , 2015, 430, 43-51.	1.5	41
6	Design and optimization of core/shell structures as highly efficient opacifiers for silica aerogels as high-temperature thermal insulation. <i>International Journal of Thermal Sciences</i> , 2018, 133, 206-215.	2.6	37
7	Modeling of the apparent solid thermal conductivity of aerogel. <i>International Journal of Heat and Mass Transfer</i> , 2018, 120, 724-730.	2.5	34
8	Three-dimensional numerical study on fully-developed mixed laminar convection in parabolic trough solar receiver tube. <i>Energy</i> , 2016, 113, 1288-1303.	4.5	33
9	Film condensing heat transfer of R134a on single horizontal tube coated with open cell copper foam. <i>Applied Thermal Engineering</i> , 2015, 76, 335-343.	3.0	30
10	A Direct Numerical Simulation for Nucleate Boiling by the VOSET Method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 949-971.	1.2	29
11	Investigation of the effect of the gas permeation induced by pressure gradient on transient heat transfer in silica aerogel. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 1026-1037.	2.5	29
12	Pool boiling heat transfer of R134a on single horizontal tube surfaces sintered with open-celled copper foam. <i>International Journal of Thermal Sciences</i> , 2011, 50, 2248-2255.	2.6	27
13	Numerical modeling of the gas-contributed thermal conductivity of aerogels. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 217-225.	2.5	26
14	Geometric optimization of aerogel composites for high temperature thermal insulation applications. <i>Journal of Non-Crystalline Solids</i> , 2020, 547, 120306.	1.5	26
15	Design and characterization of a high-flux non-coaxial concentrating solar simulator. <i>Applied Thermal Engineering</i> , 2018, 145, 201-211.	3.0	25
16	Pool boiling heat transfer of R134a outside reentrant cavity tubes at higher heat flux. <i>Applied Thermal Engineering</i> , 2017, 127, 1364-1371.	3.0	22
17	Design and thermal insulation performance analysis of endothermic opacifiers doped silica aerogels. <i>International Journal of Thermal Sciences</i> , 2019, 145, 105995.	2.6	21
18	Coupled solid (FVM)–fluid (DSMC) simulation of micro-nozzle with unstructured-grid. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 621-631.	1.0	18

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19	Experimental and numerical analysis of the hydraulic and thermal performances of the gradually-varied porous volumetric solar receiver. <i>Science China Technological Sciences</i> , 2020, 63, 1224-1234.	2.0	17
20	Theoretical and DSMC Studies on Heat Conduction of Gas Confined in a Cuboid Nanopore. <i>Journal of Heat Transfer</i> , 2017, 139, .	1.2	16
21	The effective thermal conductivity of coated/uncoated fiber-reinforced composites with different fiber arrangements. <i>Energy</i> , 2021, 230, 120756.	4.5	16
22	An ideal nano-porous insulation material: Design, modeling and numerical validation. <i>Applied Thermal Engineering</i> , 2014, 72, 34-40.	3.0	15
23	Study on Unit Cell Models and the Effective Thermal Conductivities of Silica Aerogel. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3218-3223.	0.9	15
24	Particle-in-cell and Monte Carlo collision simulations of the cathode sheath in an atmospheric direct-current arc discharge. <i>Plasma Sources Science and Technology</i> , 2016, 25, 05LT01.	1.3	14
25	Thermal conductivity modeling of hollow fiber-based porous structures for thermal insulation applications. <i>Journal of Non-Crystalline Solids</i> , 2022, 575, 121188.	1.5	14
26	Kinetic analysis of direct-current driven microdischarges with thermo-field electron emission at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 455201.	1.3	13
27	A novel flux mapping system for high-flux solar simulators based on the indirect method. <i>Solar Energy</i> , 2019, 179, 89-98.	2.9	12
28	Condensation of R134a and R22 in Shell and Tube Condensers Mounted With High-Density Low-Fin Tubes. <i>Journal of Heat Transfer</i> , 2018, 140, .	1.2	11
29	A review on heat transfer in nanoporous silica aerogel insulation materials and its modeling. <i>Energy Storage and Saving</i> , 2022, 1, 217-240.	3.0	11
30	Preparation and thermal insulation performance characterization of endothermic opacifier doped silica aerogel. <i>International Journal of Thermal Sciences</i> , 2022, 174, 107431.	2.6	10
31	Discussion on Numerical Treatment of Periodic Boundary Condition for Temperature. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2007, 52, 429-448.	0.6	9
32	Numerical Study on Some Improvements in the Passive Cooling System of a Radio Base Station Base on Multiscale Thermal Modeling Methodologyâ€“Part I: Confirmation of Simplified Models. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 844-862.	1.2	9
33	Nonlocal Effects and Slip Heat Flow in Nanolayers. <i>Scientific Reports</i> , 2017, 7, 9568.	1.6	9
34	A two-level variational multiscale meshless local Petrovâ€“Galerkin (VMS-MLPG) method for convection-diffusion problems with large Peclet number. <i>Computers and Fluids</i> , 2018, 164, 73-82.	1.3	9
35	Effective thermal conductivity modeling of hollow nanosphere packing structures. <i>International Journal of Heat and Mass Transfer</i> , 2020, 161, 120298.	2.5	8
36	A general effective thermal conductivity model for composites reinforced by non-contact spherical particles. <i>International Journal of Thermal Sciences</i> , 2021, 168, 107088.	2.6	8

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37	Unified modeling and kinetic analysis of the near-cathode region and hot cathode in atmospheric-pressure arc discharges. <i>Physics of Fluids</i> , 2022, 34, .	1.6	8
38	Grand canonical Monte Carlo simulations of hydrogen adsorption in carbon aerogels. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34807-34821.	3.8	7
39	Numerical Study on Some Improvements in the Passive Cooling System of a Radio Base Station Base on Multiscale Thermal Modeling Methodology—Part II—Results of Multiscale Numerical Simulation and Subsequent Improvements of Cooling Techniques. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 863-884.	1.2	6
40	A new stability parameter in streamline upwind meshless Petrov—Galerkin method for convection—diffusion problems at large Peclet number. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018, 74, 746-764.	0.6	6
41	The Calculation of Thermal Conductivities by Three Dimensional Direct Simulation Monte Carlo Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3299-3304.	0.9	5
42	A physically consistent FVM interpolation scheme based on the discretized convection—diffusion equation. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 71, 443-455.	0.6	5
43	A meshless local Petrov—Galerkin approach for solving the convection-dominated problems based on the streamline upwind idea and the variational multiscale concept. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018, 73, 19-32.	0.6	5
44	Numerical modeling of effective thermal conductivity of hollow silica nanosphere packings. <i>International Journal of Heat and Mass Transfer</i> , 2022, 182, 122032.	2.5	5
45	Numerical Study on Some Improvements in the Passive Cooling System of a Radio Base Station. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 62, 319-335.	1.2	4
46	Modeling of the Conductive Heat Transfer between Two Touching Nanoparticles in Nanoparticle-Based Materials. <i>International Journal of Heat and Mass Transfer</i> , 2021, 167, 120723.	2.5	2
47	A two-level variational multiscale meshless local Petrov-Galerkin (VMS-MLPG) method for incompressible Navier-Stokes equations. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2021, 79, 1-15.	0.6	1
48	The influences of microstructural parameters on the gaseous thermal conductivity in nanoporous material. , 2014, , .		0
49	Theoretical and DSMC Study on Heat Conduction of Gas in Nanoscale Pores. , 2016, , .		0
50	A general self-adaptive under-relaxation strategy for fast and robust convergence of iterative calculation of incompressible flow. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2020, 77, 299-310.	0.6	0