

Zhijun Zhang

List of Publications by Year in descending order

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36
papers

253
citations

1162367

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1058022

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times ranked

148
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of gas separation via thermally induced flows in ratchet-like patterned microchannels. <i>International Journal of Thermal Sciences</i> , 2022, 172, 107280.	2.6	3
2	Heat and drag reduction of single and combined opposing jets in hypersonic nonequilibrium flows. <i>Aerospace Science and Technology</i> , 2022, 121, 107194.	2.5	7
3	Ab initio simulation of rarefied flows of gaseous mixtures in the system of microbeams with different temperatures. <i>International Communications in Heat and Mass Transfer</i> , 2022, 131, 105872.	2.9	5
4	Energy utilization and heating uniformity of multiple specimens heated in a domestic microwave oven. <i>Food and Bioproducts Processing</i> , 2022, 132, 35-51.	1.8	16
5	Numerical and experimental study on bandgap property of two-dimensional lattice with nested core. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	6
6	Wall conditions effects on rarefied gas flow characteristics in the system of microbeams with different temperatures. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	1
7	Bandgap enhancement of two-dimensional lattice metamaterial via re-entrant hierarchy. <i>Smart Materials and Structures</i> , 2022, 31, 095012.	1.8	5
8	Numerical Investigation of the Deformable Porous Media Treated by the Intermittent Microwave. <i>Processes</i> , 2021, 9, 757.	1.3	2
9	Gas-surface interaction effects on rarefied gas flows around microbeams induced by temperature fields. <i>International Journal of Heat and Mass Transfer</i> , 2021, 172, 121186.	2.5	8
10	Impact of Improved Design on Knudsen Force for Micro Gas Sensor. <i>Micromachines</i> , 2020, 11, 634.	1.4	10
11	Numerical Investigation into the Flow Characteristics of Gas Mixtures in Knudsen Pump with Variable Soft Sphere Model. <i>Micromachines</i> , 2020, 11, 784.	1.4	6
12	Transient numerical simulation of hemispherical cone with combined opposing jet in hypersonic flow. <i>Acta Astronautica</i> , 2020, 175, 327-337.	1.7	7
13	Sensitivity analysis of intermittent microwave convective drying based on multiphase porous media models. <i>International Journal of Thermal Sciences</i> , 2020, 153, 106344.	2.6	17
14	Knudsen pumps: a review. <i>Microsystems and Nanoengineering</i> , 2020, 6, 26.	3.4	32
15	Numerical investigation into the low-pressure detection sensor performance of hydrogen gas with variable soft sphere molecular model. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7243-7253.	3.8	7
16	Hypersonic nonequilibrium flow simulations of a hemispherical nose with a counterflowing jet. <i>Acta Astronautica</i> , 2019, 165, 388-400.	1.7	8
17	Study of Flow Characteristics of Gas Mixtures in a Rectangular Knudsen Pump. <i>Micromachines</i> , 2019, 10, 79.	1.4	22
18	Numerical simulation of thermal edge flow in ratchet-like periodically patterned micro-channels. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 1023-1038.	2.5	20

#	ARTICLE	IF	CITATIONS
19	Pumping Performance Evaluation of HL-2M In-Vessel Cryopump With Monte Carlo Method. IEEE Transactions on Plasma Science, 2018, 46, 1587-1591.	0.6	9
20	Shape Effect on the Temperature Field during Microwave Heating Process. Journal of Food Quality, 2018, 2018, 1-24.	1.4	19
21	Monte Carlo simulation of gas free molecular flow in turbo molecular pump's inlet tube. Molecular Simulation, 2018, 44, 1261-1269.	0.9	3
22	Modelling of intermittent microwave convective drying: parameter sensitivity. Open Physics, 2017, 15, 405-419.	0.8	6
23	Heat and Mass Transfer of the Droplet Vacuum Freezing Process Based on the Diffusion-controlled Evaporation and Phase Transition Mechanism. Scientific Reports, 2016, 6, 35324.	1.6	5
24	Mathematical Modeling of Heat and Mass Transfer in Energy Science and Engineering 2014. Mathematical Problems in Engineering, 2015, 2015, 1-3.	0.6	1
25	Parameter Sensitivity of the Microdroplet Vacuum Freezing Process. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	1
26	Light Path Model of Fiber Optic Liquid Level Sensor Considering Residual Liquid Film on the Wall. Journal of Sensors, 2015, 2015, 1-8.	0.6	0
27	Relative Permeability Effect on Vacuum Drying Process of Porous Material Modeling. Journal of Computational and Theoretical Nanoscience, 2015, 12, 2757-2762.	0.4	1
28	Heat and Mass Transfer of Droplet Vacuum Freezing Process Based on Dynamic Mesh. Mathematical Problems in Engineering, 2014, 2014, 1-6.	0.6	5
29	Heat and Mass Transfer of Vacuum Cooling for Porous Foods-Parameter Sensitivity Analysis. Mathematical Problems in Engineering, 2014, 2014, 1-8.	0.6	3
30	System Model of Heat and Mass Transfer Process for Mobile Solvent Vapor Phase Drying Equipment. Mathematical Problems in Engineering, 2014, 2014, 1-11.	0.6	1
31	Cortex Effect on Vacuum Drying Process of Porous Medium. Mathematical Problems in Engineering, 2013, 2013, 1-8.	0.6	2
32	Mathematical Modeling of Heat and Mass Transfer in Energy Science and Engineering. Mathematical Problems in Engineering, 2013, 2013, 1-3.	0.6	1
33	3D Model-Based Simulation Analysis of Energy Consumption in Hot Air Drying of Corn Kernels. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	9
34	Nonequilibrium Thermal Dynamic Modeling of Porous Medium Vacuum Drying Process. Mathematical Problems in Engineering, 2012, 2012, 1-22.	0.6	5
35	A Molecular Dynamics Study on the Constraint Conditions of the Particle Growth Process in Laser Synthesis of Nanopowders. Advances in Materials Science and Engineering, 2012, 2012, 1-5.	1.0	0
36	Drying Modeling and Simulation. Mathematical Problems in Engineering, 2012, 2012, 1-3.	0.6	0