

Yijie Zhuang

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.

20
papers

185
citations

7
h-index

13
g-index

20
ext. papers

303
ext. citations

4.7
avg, IF

3.89
L-index

#	Paper	IF	Citations
20	PIV experimental study on the phase change behavior of phase change material with partial filling of metal foam inside a cavity during melting. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 187, 122567	4.9	1
19	A novel elastomeric copolymer-based phase change material with thermally induced flexible and shape-stable performance for prismatic battery module. <i>International Journal of Thermal Sciences</i> , 2022 , 174, 107435	4.1	1
18	Effects of gradient porous metal foam on the melting performance and energy storage of composite phase change materials subjected to an internal heater: A numerical study and PIV experimental validation. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 183, 122081	4.9	2
17	Numerical investigation on non-Newtonian melting heat transfer of phase change material composited with nanoparticles and metal foam in an inner heated cubic cavity. <i>Journal of Energy Storage</i> , 2022 , 51, 104417	7.8	0
16	Thermo-magnetic convection regulating the solidification behavior and energy storage of Fe ₃ O ₄ nanoparticles composited paraffin wax under the magnetic-field. <i>Applied Thermal Engineering</i> , 2022 , 118617	5.8	0
15	Three-dimensional numerical investigation on melting performance of phase change material composited with copper foam in local thermal non-equilibrium containing an internal heater. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 170, 121021	4.9	14
14	Thermal uniformity performance of a hybrid battery thermal management system using phase change material and cooling plates arrayed in the manner of honeycomb. <i>Thermal Science and Engineering Progress</i> , 2021 , 26, 101094	3.6	5
13	Experimental investigation on the non-Newtonian to Newtonian rheology transition of nanoparticles enhanced phase change material during melting. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 629, 127432	5.1	1
12	Implementing an emissions-rate model in computational fluid dynamics simulations of contaminant diffusion processes: A case study with xylene in painting workshops. <i>Indoor and Built Environment</i> , 2020 , 1420326X2092313	1.8	1
11	On flame bifurcation and multiplicity in consistently propagating spherical flame and droplet evaporation fronts. <i>International Journal of Multiphase Flow</i> , 2020 , 125, 103220	3.6	3
10	Autoignition and detonation characteristics of n-heptane/air mixture with water droplets. <i>Fuel</i> , 2020 , 266, 117077	7.1	4
9	Effects of water droplet evaporation on initiation, propagation and extinction of premixed spherical flames. <i>International Journal of Multiphase Flow</i> , 2019 , 117, 114-129	3.6	7
8	Numerical study on combined buoyancy-Marangoni convection heat and mass transfer of power-law nanofluids in a cubic cavity filled with a heterogeneous porous medium. <i>International Journal of Heat and Fluid Flow</i> , 2018 , 71, 39-54	2.4	26
7	Analysis of entropy generation in combined buoyancy-Marangoni convection of power-law nanofluids in 3D heterogeneous porous media. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 118, 686-707	4.9	29
6	A thermal non-equilibrium model for 3D double diffusive convection of power-law fluids with chemical reaction in the porous medium. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 670-694	4.9	19
5	Entropy generation due to three-dimensional double-diffusive convection of power-law fluids in heterogeneous porous media. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 61-82	4.9	33
4	Three-dimensional numerical investigation on thermosolutal convection of power-law fluids in anisotropic porous media. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 897-917	4.9	26

3	Experimental and numerical investigations on the flow around and through the fractal soft rocks with water vapor absorption. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 96, 413-429	4-9	5
2	An analytical permeability model for power-law fluids in porous fibrous media with consideration of electric double layer. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 91, 255-263	4-9	7
1	Numerical Study of Mixed Electroosmotic/Pressure Driven Flow of Power-law Fluids in T-shaped Microchannels. <i>Procedia Engineering</i> , 2015 , 126, 740-744		1