Yijie Zhuang

List of Publications by Year
in descending order

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		758635	752256
20	389	12	20
papers	citations	h-index	g-index

20	20	20	232
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Entropy generation due to three-dimensional double-diffusive convection of power-law fluids in heterogeneous porous media. International Journal of Heat and Mass Transfer, 2017, 106, 61-82.	2.5	44
2	Numerical study on combined buoyancyâ€“Marangoni convection heat and mass transfer of power-law nanofluids in a cubic cavity filled with a heterogeneous porous medium. International Journal of Heat and Fluid Flow, 2018, 71, 39-54.	1.1	44
3	Analysis of entropy generation in combined buoyancy-Marangoni convection of power-law nanofluids in 3D heterogeneous porous media. International Journal of Heat and Mass Transfer, 2018, 118, 686-707.	2.5	39
4	Three-dimensional numerical investigation on melting performance of phase change material composited with copper foam in local thermal non-equilibrium containing an internal heater. International Journal of Heat and Mass Transfer, 2021, 170, 121021.	2.5	36
5	A thermal non-equilibrium model for 3D double diffusive convection of power-law fluids with chemical reaction in the porous medium. International Journal of Heat and Mass Transfer, 2017, 115, 670-694.	2.5	33
6	Three-dimensional numerical investigation on thermosolutal convection of power-law fluids in anisotropic porous media. International Journal of Heat and Mass Transfer, 2017, 104, 897-917.	2.5	32
7	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. International Journal of Heat and Mass Transfer, 2022, 183, 122081.	2.5	29
8	PIV experimental study on the phase change behavior of phase change material with partial filling of metal foam inside a cavity during melting. International Journal of Heat and Mass Transfer, 2022, 187, 122567.	2.5	24
9	Thermal uniformity performance of a hybrid battery thermal management system using phase change material and cooling plates arrayed in the manner of honeycomb. Thermal Science and Engineering Progress, 2021, 26, 101094.	1.3	23
10	Experimental investigation on the non-Newtonian to Newtonian rheology transition of nanoparticles enhanced phase change material during melting. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127432.	2.3	16
11	A novel elastomeric copolymer-based phase change material with thermally induced flexible and shape-stable performance for prismatic battery module. International Journal of Thermal Sciences, 2022, 174, 107435.	2.6	13
12	An analytical permeability model for power-law fluids in porous fibrous media with consideration of electric double layer. International Journal of Heat and Mass Transfer, 2015, 91, 255-263.	2.5	12
13	Effects of water droplet evaporation on initiation, propagation and extinction of premixed spherical flames. International Journal of Multiphase Flow, 2019, 117, 114-129.	1.6	10
14	Numerical investigation on non-Newtonian melting heat transfer of phase change material composited with nanoparticles and metal foam in an inner heated cubic cavity. Journal of Energy Storage, 2022, 51, 104417.	3.9	9
15	Thermo-magnetic convection regulating the solidification behavior and energy storage of Fe3O4 nanoparticles composited paraffin wax under the magnetic-field. Applied Thermal Engineering, 2022, 214, 118617.	3.0	8
16	Experimental and numerical investigations on the flow around and through the fractal soft rocks with water vapor absorption. International Journal of Heat and Mass Transfer, 2016, 96, 413-429.	2.5	5
17	On flame bifurcation and multiplicity in consistently propagating spherical flame and droplet evaporation fronts. International Journal of Multiphase Flow, 2020, 125, 103220.	1.6	5
18	Autoignition and detonation characteristics of n-heptane/air mixture with water droplets. Fuel, 2020, 266, 117077.	3.4	5

#	Article	IF	Citations
19	Numerical Study of Mixed Electroosmotic/Pressure Driven Flow of Power-law Fluids in T-shaped Microchannels. Procedia Engineering, 2015, 126, 740-744.	1.2	1
20	Implementing an emissions-rate model in computational fluid dynamics simulations of contaminant diffusion processes: A case study with xylene in painting workshops. Indoor and Built Environment, 2021, 30, 906-923.	1.5	1