

Duo Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

416
citations

933447

10
h-index

1281871

11
g-index

12
all docs

12
docs citations

12
times ranked

484
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional lattice-Boltzmann model for liquid water transport and oxygen diffusion in cathode of polymer electrolyte membrane fuel cell with electrochemical reaction. <i>Electrochimica Acta</i> , 2018, 262, 282-296.	5.2	70
2	Understanding the role of the porous electrode microstructure in redox flow battery performance using an experimentally validated 3D pore-scale lattice Boltzmann model. <i>Journal of Power Sources</i> , 2020, 447, 227249.	7.8	70
3	Three-dimensional multi-relaxation time lattice-Boltzmann model for the drop impact on a dry surface at large density ratio. <i>International Journal of Multiphase Flow</i> , 2014, 64, 11-18.	3.4	67
4	Application of a high density ratio lattice-Boltzmann model for the droplet impingement on flat and spherical surfaces. <i>International Journal of Thermal Sciences</i> , 2014, 84, 75-85.	4.9	48
5	The effect of wetting area in carbon paper electrode on the performance of vanadium redox flow batteries: A three-dimensional lattice Boltzmann study. <i>Electrochimica Acta</i> , 2018, 283, 1806-1819.	5.2	40
6	A lattice Boltzmann study on the impact of the geometrical properties of porous media on the steady state relative permeabilities on two-phase immiscible flows. <i>Advances in Water Resources</i> , 2016, 95, 61-79.	3.8	32
7	Investigations on the Droplet Impact onto a Spherical Surface with a High Density Ratio Multi-Relaxation Time Lattice-Boltzmann Model. <i>Communications in Computational Physics</i> , 2014, 16, 892-912.	1.7	23
8	Numerical analysis of hollow droplet impacts on a dry flat surface. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 753-763.	4.8	22
9	Numerical analysis on air entrapment during a droplet impacts on a dry flat surface. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 186-193.	4.8	21
10	Progress in 3D electrode microstructure modelling for fuel cells and batteries: transport and electrochemical performance. <i>Progress in Energy</i> , 2019, 1, 012003.	10.9	21
11	The Development of a 3D Pore-Scale Lattice Boltzmann Model for 3D Microstructure Modeling and Design of Li-ion Battery Electrodes. <i>Energy Technology</i> , 2022, 10, 2200080.	3.8	2
12	A ML framework to predict permeability of highly porous media based on PSD. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 680, 012080.	0.3	0