

Renkun Dai

List of Publications by Year in descending order

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12
papers

113
citations

1478505

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1281871

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all docs

12
docs citations

12
times ranked

86
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of natural convection melting inside cavity heated from different sides using enthalpy based lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2018, 121, 715-725.	4.8	30
2	Evolution phenomena and surface shrink of the melt pool in an additive manufacturing process under magnetic field. International Journal of Heat and Mass Transfer, 2018, 123, 760-775.	4.8	17
3	Characteristics and control mechanism of melting process under extra magnetic force fields. Applied Thermal Engineering, 2020, 167, 114704.	6.0	16
4	Charging time and energy storage rate analysis of fin effect inside the horizontal tube for thermal energy storage. Journal of Cleaner Production, 2020, 273, 123030.	9.3	11
5	On the optimal heat source location of partially heated energy storage process using the newly developed simplified enthalpy based lattice Boltzmann method. Applied Energy, 2020, 275, 115387.	10.1	10
6	Modeling the mushy zone during the melting process under Neumann boundary condition using the improved enthalpy-porosity method. Numerical Heat Transfer; Part A: Applications, 2020, 78, 423-442.	2.1	8
7	Condensation heat transfer characteristic of high-speed steam/nitrogen mixture in horizontal rectangular channel. Experimental Thermal and Fluid Science, 2016, 78, 292-300.	2.7	7
8	Study on high-speed condensation heat transfer of steam/nitrogen mixture in horizontal rectangular channel. Experimental Thermal and Fluid Science, 2018, 98, 267-277.	2.7	5
9	Lattice Boltzmann simulation for melting control through an extra magnetic quadrupole field. Numerical Heat Transfer; Part A: Applications, 2019, 75, 254-270.	2.1	4
10	Investigation on the effect of the thermal dynamic, evaporation, and alternative material properties in a laser melt pool with a developed 2D model based on the VOSET method. Numerical Heat Transfer; Part A: Applications, 2017, 71, 1104-1122.	2.1	3
11	Numerical study on heat and mass transport phenomena during a multilayer cladding process for direct laser deposition. Numerical Heat Transfer; Part A: Applications, 2022, 82, 356-375.	2.1	2
12	Investigation on the transient phenomena during the evolution of melt pool. Energy Procedia, 2017, 142, 3876-3881.	1.8	0