

Qinlong Ren

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,212
citations

567281

15
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

821
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation and optimization of melting performance for a latent heat thermal energy storage unit partially filled with porous media. <i>Applied Energy</i> , 2017, 193, 84-95.	10.1	257
2	Thermal management of electronic devices using pin-fin based cascade microencapsulated PCM/expanded graphite composite. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119199.	4.8	123
3	A comparative study of PCM melting process in a heat pipe-assisted LHTES unit enhanced with nanoparticles and metal foams by immersed boundary-lattice Boltzmann method at pore-scale. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 1214-1228.	4.8	116
4	GPU accelerated numerical study of PCM melting process in an enclosure with internal fins using lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2016, 100, 522-535.	4.8	82
5	Numerical study of double-diffusive convection in a vertical cavity with Soret and Dufour effects by lattice Boltzmann method on GPU. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 538-553.	4.8	81
6	PCM charging process accelerated with combination of optimized triangle fins and nanoparticles. <i>International Journal of Thermal Sciences</i> , 2019, 140, 466-479.	4.9	69
7	Investigation of the effect of metal foam characteristics on the PCM melting performance in a latent heat thermal energy storage unit by pore-scale lattice Boltzmann modeling. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 745-764.	2.1	64
8	Lattice Boltzmann models for axisymmetric solid-liquid phase change. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 795-804.	4.8	48
9	Three-dimensional lattice Boltzmann models for solid-liquid phase change. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1334-1347.	4.8	45
10	Enhancement of nanoparticle-phase change material melting performance using a sinusoidal heat pipe. <i>Energy Conversion and Management</i> , 2019, 180, 784-795.	9.2	40
11	Long-range electrothermal fluid motion in microfluidic systems. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 341-349.	4.8	36
12	Natural convection with an array of solid obstacles in an enclosure by lattice Boltzmann method on a CUDA computation platform. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 273-285.	4.8	35
13	Conjugate heat transfer in anisotropic woven metal fiber-phase change material composite. <i>Applied Thermal Engineering</i> , 2021, 189, 116618.	6.0	31
14	Cell transport and suspension in high conductivity electrothermal flow with negative dielectrophoresis by immersed boundary-lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 1229-1244.	4.8	23
15	A review on recent advances and challenges of ionic wind produced by corona discharges with practical applications. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 153002.	2.8	17
16	Investigation of pumping mechanism for non-Newtonian blood flow with AC electrothermal forces in a microchannel by hybrid boundary element method and immersed boundary-lattice Boltzmann method. <i>Electrophoresis</i> , 2018, 39, 1329-1338.	2.4	16
17	AC electrokinetic induced non-Newtonian electrothermal blood flow in 3D microfluidic biosensor with ring electrodes for point-of-care diagnostics. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	15
18	Nanoparticle enhanced salinity-gradient osmotic energy conversion under photothermal effect. <i>Energy Conversion and Management</i> , 2022, 251, 115032.	9.2	15

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19	Numerical simulation of a 2D electrothermal pump by lattice Boltzmann method on GPU. Numerical Heat Transfer; Part A: Applications, 2016, 69, 677-693.	2.1	14
20	Review of Bipolar Plate in Redox Flow Batteries: Materials, Structures, and Manufacturing. Electrochemical Energy Reviews, 2021, 4, 718-756.	25.5	14
21	A numerical study of 2D electrothermal flow using boundary element method. Applied Mathematical Modelling, 2015, 39, 2777-2795.	4.2	11
22	Pore-scale heat transfer of heat sink filled with stacked 2D metal fiber-PCM composite. International Journal of Thermal Sciences, 2021, 161, 106739.	4.9	11
23	Bioparticle delivery in physiological conductivity solution using AC electrokinetic micropump with castellated electrodes. Journal Physics D: Applied Physics, 2018, 51, 465401.	2.8	10
24	Insulator-based dielectrophoretic antifouling of nanoporous membrane for high conductive water desalination. Desalination, 2020, 482, 114410.	8.2	9
25	Analytical evaluation of the BEM singular integrals for 3D Laplace and Stokes flow equations using coordinate transformation. Engineering Analysis With Boundary Elements, 2015, 53, 1-8.	3.7	7
26	Numerical Investigation of Energy Saving Characteristic in Building Roof Coupled with PCM Using Lattice Boltzmann Method with Economic Analysis. Applied Sciences (Switzerland), 2018, 8, 1739.	2.5	7
27	Salinity-gradient power harvesting using osmotic energy conversion with designed interfacial nanostructures under thermal modulation. Desalination, 2022, 535, 115802.	8.2	6
28	Nanopore-based active oil droplet filtration under negative DC dielectrophoresis for oily wastewater treatment. Journal Physics D: Applied Physics, 2021, 54, 345302.	2.8	5
29	Continuous trapping of bacteria in non-Newtonian blood flow using negative dielectrophoresis with quadrupole electrodes. Journal Physics D: Applied Physics, 2021, 54, 015401.	2.8	3
30	Physical similarity and parametric sensitivity analysis of the capacitive deionization process. International Journal of Green Energy, 0, , 1-13.	3.8	2