Qinlong Ren

List of Publications by Year
in descending order

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	Nanoparticle enhanced salinity-gradient osmotic energy conversion under photothermal effect. Energy Conversion and Management, 2022, 251, 115032.	9.2	15
2	A review on recent advances and challenges of ionic wind produced by corona discharges with practical applications. Journal Physics D: Applied Physics, 2022, 55, 153002.	2.8	17
3	Salinity-gradient power harvesting using osmotic energy conversion with designed interfacial nanostructures under thermal modulation. Desalination, 2022, 535, 115802.	8.2	6
4	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
5	Conjugate heat transfer in anisotropic woven metal fiber-phase change material composite. Applied Thermal Engineering, 2021, 189, 116618.	6.0	31
6	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
7	Review of Bipolar Plate in Redox Flow Batteries: Materials, Structures, and Manufacturing. Electrochemical Energy Reviews, 2021, 4, 718-756.	25.5	14
8	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
9	Insulator-based dielectrophoretic antifouling of nanoporous membrane for high conductive water desalination. Desalination, 2020, 482, 114410.	8.2	9
10	Thermal management of electronic devices using pin-fin based cascade microencapsulated PCM/expanded graphite composite. International Journal of Heat and Mass Transfer, 2020, 149, 119199.	4.8	123
11	AC electrokinetic induced non-Newtonian electrothermal blood flow in 3D microfluidic biosensor with ring electrodes for point-of-care diagnostics. Journal of Applied Physics, 2019, 126, .	2.5	15
12	PCM charging process accelerated with combination of optimized triangle fins and nanoparticles. International Journal of Thermal Sciences, 2019, 140, 466-479.	4.9	69
13	Enhancement of nanoparticle-phase change material melting performance using a sinusoidal heat pipe. Energy Conversion and Management, 2019, 180, 784-795.	9.2	40
14	Cell transport and suspension in high conductivity electrothermal flow with negative dielectrophoresis by immersed boundary-lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2019, 128, 1229-1244.	4.8	23
15	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. Electrophoresis, 2018, 39, 1329-1338.	2.4	16
16	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. International Journal of Heat and Mass Transfer, 2018, 121, 1214-1228.	4.8	116
17	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
18	Bioparticle delivery in physiological conductivity solution using AC electrokinetic micropump with castellated electrodes. Journal Physics D: Applied Physics, 2018, 51, 465401.	2.8	10

#	Article	IF	Citations
19	Evaluation and optimization of melting performance for a latent heat thermal energy storage unit partially filled with porous media. Applied Energy, 2017, 193, 84-95.	10.1	257
20	Lattice Boltzmann models for axisymmetric solid–liquid phase change. International Journal of Heat and Mass Transfer, 2017, 112, 795-804.	4.8	48
21	Three–dimensional lattice Boltzmann models for solid–liquid phase change. International Journal of Heat and Mass Transfer, 2017, 115, 1334-1347.	4.8	45
22	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. Numerical Heat Transfer; Part A: Applications, 2017, 72, 745-764.	2.1	64
23	Long-range electrothermal fluid motion in microfluidic systems. International Journal of Heat and Mass Transfer, 2016, 98, 341-349.	4.8	36
24	GPU accelerated numerical study of PCM melting process in an enclosure with internal fins using lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2016, 100, 522-535.	4.8	82
25	Numerical study of double-diffusive convection in a vertical cavity with Soret and Dufour effects by lattice Boltzmann method on GPU. International Journal of Heat and Mass Transfer, 2016, 93, 538-553.	4.8	81
26	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
27	Natural convection with an array of solid obstacles in an enclosure by lattice Boltzmann method on a CUDA computation platform. International Journal of Heat and Mass Transfer, 2016, 93, 273-285.	4.8	35
28	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
29	A numerical study of 2D electrothermal flow using boundary element method. Applied Mathematical Modelling, 2015, 39, 2777-2795.	4.2	11
30	Physical similarity and parametric sensitivity analysis of the capacitive deionization process. International Journal of Green Energy, 0, , 1-13.	3.8	2