

Ahmad Ali Rabienataj Darzi

List of Publications by Citations

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40
papers

1,739
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41
ext. papers

2,126
ext. citations

4.1
avg, IF

5.45
L-index

#	Paper	IF	Citations
40	Melting and solidification of PCM enhanced by radial conductive fins and nanoparticles in cylindrical annulus. <i>Energy Conversion and Management</i> , 2016 , 118, 253-263	10.6	178
39	Numerical investigations of unconstrained melting of nano-enhanced phase change material (NEPCM) inside a spherical container. <i>International Journal of Thermal Sciences</i> , 2012 , 51, 77-83	4.1	158
38	Melting and solidification of PCM embedded in porous metal foam in horizontal multi-tube heat storage system. <i>Energy Conversion and Management</i> , 2018 , 171, 398-410	10.6	137
37	Numerical study of melting inside concentric and eccentric horizontal annulus. <i>Applied Mathematical Modelling</i> , 2012 , 36, 4080-4086	4.5	134
36	Lattice Boltzmann simulation of nanofluid in lid-driven cavity. <i>International Communications in Heat and Mass Transfer</i> , 2010 , 37, 1528-1534	5.8	109
35	Unconstrained melting inside a sphere. <i>International Journal of Thermal Sciences</i> , 2013 , 63, 55-64	4.1	86
34	Melting process in porous media around two hot cylinders: Numerical study using the lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 509, 316-335	3.3	74
33	Heat transfer and flow characteristics of AL ₂ O ₃ /water nanofluid in a double tube heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 47, 105-112	5.8	70
32	Turbulent heat transfer of Al ₂ O ₃ /water nanofluid inside helically corrugated tubes: Numerical study. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 41, 68-75	5.8	70
31	Experimental investigation of turbulent heat transfer and flow characteristics of SiO ₂ /water nanofluid within helically corrugated tubes. <i>International Communications in Heat and Mass Transfer</i> , 2012 , 39, 1425-1434	5.8	69
30	Experimental investigation of convective heat transfer and friction factor of Al ₂ O ₃ /water nanofluid in helically corrugated tube. <i>Experimental Thermal and Fluid Science</i> , 2014 , 57, 188-199	3	63
29	Enhancement of phase change rate of PCM in cylindrical thermal energy storage. <i>Applied Thermal Engineering</i> , 2019 , 150, 132-142	5.8	57
28	Outward melting of ice enhanced by Cu nanoparticles inside cylindrical horizontal annulus: Lattice Boltzmann approach. <i>Applied Mathematical Modelling</i> , 2013 , 37, 8813-8825	4.5	50
27	Numerical investigation of free-cooling system using plate type PCM storage. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 48, 155-163	5.8	49
26	Absorption and desorption of hydrogen in long metal hydride tank equipped with phase change material jacket. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9595-9610	6.7	47
25	Numerical study of heat transfer on using lobed cross sections in helical coil heat exchangers: Effect of physical and geometrical parameters. <i>Energy Conversion and Management</i> , 2018 , 176, 236-245	10.6	35
24	Constrained ice melting around one cylinder in horizontal cavity accelerated using three heat transfer enhancement techniques. <i>International Journal of Thermal Sciences</i> , 2018 , 125, 231-247	4.1	30

23	Heat transfer enhancement of PCM melting in 2D horizontal elliptical tube using metallic porous matrix. <i>Theoretical and Computational Fluid Dynamics</i> , 2016 , 30, 579-603	2.3	29
22	Natural convection melting of NEPCM in a cavity with an obstacle using lattice Boltzmann method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013 , 24, 221-236	4.5	29
21	A novel heat sink design with interrupted, staggered and capped fins. <i>International Journal of Thermal Sciences</i> , 2018 , 127, 312-320	4.1	26
20	Simulation of natural convection melting in a cavity with fin using lattice Boltzmann method. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 70, 313-325	1.9	26
19	Simulation of natural convection melting in an inclined cavity using lattice Boltzmann method. <i>Scientia Iranica</i> , 2012 , 19, 1066-1073	1.5	25
18	Convection-dominated melting of phase change material in partially heated cavity: lattice Boltzmann study. <i>Heat and Mass Transfer</i> , 2013 , 49, 555-565	2.2	24
17	Numerical study of biomagnetic fluid flow in a duct with a constriction affected by a magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 473, 42-50	2.8	23
16	Heat transfer enhancement of ferrofluid flow within a wavy channel by applying a non-uniform magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 3331-3343	4.1	23
15	The enthalpy-based lattice Boltzmann method (LBM) for simulation of NePCM melting in inclined elliptical annulus. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 548, 123887	3.3	21
14	Turbulent heat transfer and fluid flow of alumina nanofluid inside three-lobed twisted tube. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 1451-1462	4.1	19
13	Two phase mixture model of nano-enhanced mixed convection heat transfer in finned enclosure. <i>Chemical Engineering Research and Design</i> , 2016 , 111, 294-304	5.5	17
12	Accelerated melting of PCM in a multitube annulus-type thermal storage unit using lattice Boltzmann simulation. <i>Heat Transfer - Asian Research</i> , 2017 , 46, 1499-1525	2.8	13
11	Lattice Boltzmann investigation for enhancing the thermal conductivity of ice using Al ₂ O ₃ porous matrix. <i>International Journal of Computational Fluid Dynamics</i> , 2012 , 26, 451-462	1.2	13
10	Mixed Convection Heat Transfer Analysis in an Enclosure with Two Hot Cylinders: A Lattice Boltzmann Approach. <i>Heat Transfer - Asian Research</i> , 2017 , 46, 218-236	2.8	7
9	Numerical investigation on thermal performance of coiled tube with helical corrugated wall. <i>International Journal of Thermal Sciences</i> , 2021 , 161, 106759	4.1	7
8	Numerical study of the fin effect on mixed convection heat transfer in a lid-driven cavity. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011 , 225, 397-406	1.3	4
7	Numerical investigation of heat transfer and fluid flow characteristics inside tube with internally star fins. <i>Heat and Mass Transfer</i> , 2019 , 55, 1901-1911	2.2	4
6	MELTING WITHIN HORIZONTAL H-SHAPED ENCLOSURE WITH ADIABATIC CURVED BOUNDARY AFFECTED BY INCLINATION, MONO/HYBRID NANOFLUIDS AND FINS. <i>Journal of Enhanced Heat Transfer</i> , 2020 , 27, 407-437	1.7	3

5	Heat transfer and pressure drop of Al ₂ O ₃ /water nanofluid in a tube equipped with double twisted tape inserts with different pitch ratios. <i>Heat Transfer - Asian Research</i> , 2019 , 48, 233-253	2.8	3
4	Modelling and Simulation of Flow and Heat Transfer of Ferrofluid under Magnetic Field of Block Neodymium Magnet. <i>Applied Mathematical Modelling</i> , 2021 , 103, 238-238	4.5	2
3	Interactions between hybrid nanosized particles and convection melting inside an enclosure with partially active walls: 2D lattice Boltzmann-based numerical investigation. <i>Heat Transfer</i> , 2021 , 50, 4908-4936	3.1	2
2	Two-and-three-dimensional analysis of Joule and viscous heating effects on MHD nanofluid forced convection in microchannels. <i>Thermal Science and Engineering Progress</i> , 2021 , 25, 100983	3.6	2
1	A numerical study of flow behavior in the shell and helical finned-tube heat exchanger. <i>Heat Transfer</i> , 2021 , 50, 4607-4621	3.1	