

Ahmad Ali Rabienataj Darzi

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,511
citations

218381

26
h-index

288905

40
g-index

42
all docs

42
docs citations

42
times ranked

1597
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.4	256
2	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.	4.4	248
3	Numerical study of melting inside concentric and eccentric horizontal annulus. <i>Applied Mathematical Modelling</i> , 2012, 36, 4080-4086.	2.2	203
4	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.	2.6	199
5	Lattice Boltzmann simulation of nanofluid in lid-driven cavity. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 1528-1534.	2.9	132
6	Unconstrained melting inside a sphere. <i>International Journal of Thermal Sciences</i> , 2013, 63, 55-64.	2.6	114
7	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.	1.2	107
8	Heat transfer and flow characteristics of Al_2O_3 -water nanofluid in a double tube heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2013, 47, 105-112.	2.9	101
9	Enhancement of phase change rate of PCM in cylindrical thermal energy storage. <i>Applied Thermal Engineering</i> , 2019, 150, 132-142.	3.0	96
10	Turbulent heat transfer of Al_2O_3 -water nanofluid inside helically corrugated tubes: Numerical study. <i>International Communications in Heat and Mass Transfer</i> , 2013, 41, 68-75.	2.9	86
11	Experimental investigation of convective heat transfer and friction factor of Al_2O_3 /water nanofluid in helically corrugated tube. <i>Experimental Thermal and Fluid Science</i> , 2014, 57, 188-199.	1.5	84
12	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.	2.9	83
13	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.	3.8	81
14	Numerical investigation of free-cooling system using plate type PCM storage. <i>International Communications in Heat and Mass Transfer</i> , 2013, 48, 155-163.	2.9	71
15	Outward melting of ice enhanced by Cu nanoparticles inside cylindrical horizontal annulus: Lattice Boltzmann approach. <i>Applied Mathematical Modelling</i> , 2013, 37, 8813-8825.	2.2	63
16	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.	4.4	48
17	A novel heat sink design with interrupted, staggered and capped fins. <i>International Journal of Thermal Sciences</i> , 2018, 127, 312-320.	2.6	43
18	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.	1.2	41

#	ARTICLE	IF	CITATIONS
19	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.	2.6	39
20	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.	2.0	39
21	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.	0.9	37
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.	1.6	36
23	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.	1.0	36
24	Simulation of natural convection melting in an inclined cavity using lattice Boltzmann method. <i>Scientia Iranica</i> , 2012, 19, 1066-1073.	0.3	34
25	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.	0.9	32
26	Convection-dominated melting of phase change material in partially heated cavity: lattice Boltzmann study. <i>Heat and Mass Transfer</i> , 2013, 49, 555-565.	1.2	29
27	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.	2.0	27
28	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.	2.7	20
29	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	20
30	Numerical investigation on thermal performance of coiled tube with helical corrugated wall. <i>International Journal of Thermal Sciences</i> , 2021, 161, 106759.	2.6	20
31	Lattice Boltzmann investigation for enhancing the thermal conductivity of ice using Al_2O_3 porous matrix. <i>International Journal of Computational Fluid Dynamics</i> , 2012, 26, 451-462.	0.5	17
32	Modelling and Simulation of Flow and Heat Transfer of Ferrofluid under Magnetic Field of Neodymium Block Magnet. <i>Applied Mathematical Modelling</i> , 2022, 103, 238-260.	2.2	10
33	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.	1.1	9
34	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.	1.7	9
35	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.	1.3	8
36	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

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37	Numerical investigation of heat transfer and fluid flow characteristics inside tube with internally star fins. Heat and Mass Transfer, 2019, 55, 1901-1911.	1.2	7
38	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. Heat Transfer - Asian Research, 2019, 48, 233-253.	2.8	6
39	MELTING WITHIN HORIZONTAL H-SHAPED ENCLOSURE WITH ADIABATIC CURVED BOUNDARY AFFECTED BY INCLINATION, MONO/HYBRID NANOFLUIDS AND FINS. Journal of Enhanced Heat Transfer, 2020, 27, 407-437.	0.5	5
40	INTEGRATED INFLUENCES OF INCLINATION, NANOFLUIDS, AND FINS ON MELTING INSIDE A HORIZONTAL ENCLOSURE WITH CROSS SECTION OF MAJOR CIRCLE SECTOR. Heat Transfer Research, 2020, 51, 641-688.	0.9	3
41	A numerical study of flow behavior in the shell and helical finned tube heat exchanger. Heat Transfer, 2021, 50, 4607-4621.	1.7	0