

Ghanbar Ali Sheikhzadeh

List of Publications by Year in descending order

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63
papers

1,568
citations

361045

20
h-index

315357

38
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63
all docs

63
docs citations

63
times ranked

1220
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of turbulent heat transfer and nanofluid flow in a double pipe heat exchanger. <i>Advanced Powder Technology</i> , 2018, 29, 273-282.	2.0	215
2	Effects of nanoparticles transport mechanisms on Al ₂ O ₃ -water nanofluid natural convection in a square enclosure. <i>International Journal of Thermal Sciences</i> , 2013, 66, 51-62.	2.6	124
3	Turbulent flow and heat transfer of Water/Al ₂ O ₃ nanofluid inside a rectangular ribbed channel. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 96, 73-84.	1.3	108
4	Natural convection of Cu-water nanofluid in a cavity with partially active side walls. <i>European Journal of Mechanics, B/Fluids</i> , 2011, 30, 166-176.	1.2	106
5	3-D numerical investigation of natural convection in a tilted cylindrical annulus containing molten potassium and controlling it using various magnetic fields. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 46, 809-821.	0.3	87
6	Multi-objective optimization of natural convection in a cylindrical annulus mold under magnetic field using particle swarm algorithm. <i>International Communications in Heat and Mass Transfer</i> , 2015, 60, 13-20.	2.9	87
7	NUMERICAL SIMULATION OF ELECTRICALLY CONDUCTING FLUID FLOW AND FREE CONVECTIVE HEAT TRANSFER IN AN ANNULUS ON APPLYING A MAGNETIC FIELD. <i>Heat Transfer Research</i> , 2014, 45, 749-766.	0.9	87
8	Numerical study of magnetic field on mixed convection and entropy generation of nanofluid in a trapezoidal enclosure. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 403, 133-145.	1.0	70
9	Effect of horizontal and vertical elliptic baffles inside an enclosure on the mixed convection of a MWCNTs-water nanofluid and its entropy generation. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	50
10	Effect of a Magnetic Field on Buoyancy-Driven Convection in Differentially Heated Square Cavity. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 407-411.	1.2	43
11	Measurement of the dynamic viscosity of hybrid engine oil -CuO-MWCNT nanofluid, development of a practical viscosity correlation and utilizing the artificial neural network. <i>Heat and Mass Transfer</i> , 2018, 54, 151-161.	1.2	32
12	Optimization of micro-finned tubes in double pipe heat exchangers using particle swarm algorithm. <i>Applied Thermal Engineering</i> , 2017, 119, 1-9.	3.0	31
13	Numerical Study of Natural Convection in a Differentially-Heated Rectangular Cavity Filled with TiO ₂ -Water Nanofluid. <i>Journal of Nano Research</i> , 0, 13, 75-80.	0.8	30
14	Numerical study of mixed convection flows in a lid-driven enclosure filled with nanofluid using variable properties. <i>Results in Physics</i> , 2012, 2, 5-13.	2.0	29
15	Effect of a porous medium on flow and mixed convection heat transfer of nanofluids with variable properties in a trapezoidal enclosure. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 741-754.	2.0	28
16	Cooling Enhancement and Stress Reduction Optimization of Disk-Shaped Electronic Components Using Nanofluids. <i>Symmetry</i> , 2020, 12, 931.	1.1	28
17	Numerical study of air flow and heat transfer in a two-dimensional enclosure with floor heating. <i>Energy and Buildings</i> , 2014, 78, 98-104.	3.1	27
18	Numerical simulation of double-diffusive mixed convection in an enclosure filled with nanofluid using Bejan's heatlines and masslines. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 1287-1300.	3.4	27

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19	A numerical study of the effect of the magnetic field on turbulent fluid flow, heat transfer and entropy generation of hybrid nanofluid in a trapezoidal enclosure. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	24
20	Introduce a novel configuration of microchannel and high-conductivity inserts for cooling of disc-shaped electronic components. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 2845-2859.	1.6	24
21	Laminar natural convection of Cu-water nanofluid in concentric annuli with radial fins attached to the inner cylinder. <i>Heat and Mass Transfer</i> , 2013, 49, 391-403.	1.2	20
22	Laboratory and CFD investigations of the two-phase flow behavior in flotation columns equipped with vertical baffle. <i>International Journal of Mineral Processing</i> , 2017, 166, 79-88.	2.6	20
23	Numerical investigation of turbulent forced-convective heat transfer of Al ₂ O ₃ -water nanofluid with variable properties in tube. <i>Ain Shams Engineering Journal</i> , 2015, 6, 577-585.	3.5	19
24	Investigation of the effect of air turbulence intensity on NO _x emission in non-premixed hydrogen and hydrogen-hydrocarbon composite fuel combustion. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10159-10168.	3.8	17
25	Numerical study of natural convection and entropy generation of Cu-water nanofluid around an obstacle in a cavity. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 3347-3356.	0.7	17
26	Mixed convection in a rotating eccentric annulus containing nanofluid using bi-orthogonal grid types: A finite volume simulation. <i>Journal of Molecular Liquids</i> , 2017, 227, 114-126.	2.3	17
27	The effect of mineral micro particle in coating on energy consumption reduction and thermal comfort in a room with a radiation cooling panel in different climates. <i>Energy and Buildings</i> , 2014, 82, 644-650.	3.1	16
28	Fabrication and characterization of microencapsulated PA with SiO ₂ shell through sol-gel synthesis via sodium silicate precursor. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9990-9997.	1.1	16
29	Effects of walls temperature variation on double diffusive natural convection of Al ₂ O ₃ -water nanofluid in an enclosure. <i>Heat and Mass Transfer</i> , 2013, 49, 1689-1700.	1.2	14
30	Providing thermal comfort and saving energy inside the buildings using a ceiling fan in heating systems. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 4219-4230.	0.8	13
31	Heat transfer enhancement in a microchannel using a pulsating MHD hybrid nanofluid flow. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-16.	1.2	12
32	Effect of a Magnetic Field on Mixed Convection of a Nanofluid in a Square Cavity. <i>Journal of Magnetism</i> , 2013, 18, 321-325.	0.2	12
33	Numerical study of steady magneto-convection around an adiabatic body inside a square enclosure in low Prandtl numbers. <i>Heat and Mass Transfer</i> , 2011, 47, 27-34.	1.2	11
34	Aspect ratio effects of an adiabatic rectangular obstacle on natural convection and entropy generation of a nanofluid in an enclosure. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 3495-3504.	0.7	10
35	Study on Radiation Properties of Polyurethane/Nano Zirconium Oxide Nanocomposite Coatings. <i>Materials Science Forum</i> , 0, 894, 109-112.	0.3	9
36	Wings shape effect on behavior of hybrid nanofluid inside a channel having vortex generator. <i>Heat and Mass Transfer</i> , 2019, 55, 1969-1983.	1.2	9

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37	Analytical study of parameters affecting entropy generation of nanofluid turbulent flow in channel and micro-channel. <i>Thermal Science</i> , 2016, 20, 2037-2050.	0.5	9
38	Effect of ultrasonic peening technology on the thermal fatigue of rolling mill rolls. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 2499-2513.	1.5	8
39	Experimental Study of the Thermal Properties of Microencapsulated Palmitic Acid Composites with CuCO ₃ Shell as Thermal Energy Storage Materials. <i>ChemistrySelect</i> , 2019, 4, 6501-6505.	0.7	8
40	On the micro-scale battery cooling with a sinusoidal hybrid nanofluid flow. <i>Journal of Energy Storage</i> , 2022, 46, 103819.	3.9	8
41	Preparation of SrTiO ₃ -microencapsulated palmitic acid by means of a sol-gel approach as thermal energy storage materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 794-800.	1.1	7
42	Evaluation of the thermal properties of SrCO ₃ -microencapsulated palmitic acid composites as thermal energy storage materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 2123-2130.	2.0	6
43	Study of flow uniformity within convergent microchannels with a circular manifold. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	5
44	Computational modelling of the unsaturated flow of liquid in heap leaching, using the results of column tests to calibrate the model. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2004, 218, 277-289.	1.4	4
45	The effect of oxidant flow rate on a coaxial oxy-fuel flame. <i>Heat and Mass Transfer</i> , 2012, 48, 1615-1626.	1.2	4
46	Heat insulation effect in solar radiation of polyurethane powder coating nanocomposite. <i>Scientific Reports</i> , 2021, 11, 20665.	1.6	4
47	The Effect of Magnetic Field on Buoyancy-Driven Convection in a Differentially Heated Square Cavity With Two Insulated Baffles Attached to Its Isothermal Walls. , 2008, , .		3
48	Analytical study of Al ₂ O ₃ -Cu/water micropolar hybrid nanofluid in a porous channel with expanding/contracting walls in the presence of magnetic field. <i>Scientia Iranica</i> , 2017, .	0.3	3
49	Effect of Magnetic Field on Transient Natural Convection Heat Transfer. <i>IEEE Transactions on Magnetism</i> , 2009, 45, 2788-2790.	1.2	2
50	EFFECTS OF RADIAL FINS ON THE LAMINAR NATURAL CONVECTION OF A NANOFLUID IN CONCENTRIC ANNULI. <i>Computational Thermal Sciences</i> , 2012, 4, 151-158.	0.5	2
51	The Effect of Air Preheating on a Sudden-Expansion Turbulent Diffusion Air-fuel Flame. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 2801-2808.	1.1	2
52	Numerical Study of Natural Convection in a Partitioned Cavity. , 2008, , .		1
53	Effect of a Shield on Mixed Convection in a Rectangular Enclosure with Moving Cold Sidewalls and a Heat Source on the Bottom Wall. <i>Defect and Diffusion Forum</i> , 2010, 297-301, 584-589.	0.4	1
54	Effect of geometry on magneto-convection in a square enclosure filled with a low Prandtl number fluid. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2011, 225, 53-61.	1.4	1

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55	Brownian models effect on turbulent fluid flow and heat transfer and entropy generation of water/boehmite alumina nanofluid inside enclosure. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 2305-2327.	1.6	1
56	A Numerical Study of Natural Convection in a Cavity With Two Fins Attached to Its Vertical Walls. , 2007, , 453.		0
57	Numerical Study of Magneto-Convection of an Electrically Conducting Fluid with Variable Properties. , 2008, , .		0
58	Numerical Simulation of Natural Convection in a Mold. Defect and Diffusion Forum, 2010, 297-301, 456-461.	0.4	0
59	Numerical Study of Magnetic Field Effects on Buoyancy Driven Convection in a Non-Isothermally Heated Square Enclosure. Defect and Diffusion Forum, 0, 312-315, 536-541.	0.4	0
60	Heat Transfer Enhancement Using Cu-Water Nanofluid in an Enclosure with Moving Cold Sidewalls. Defect and Diffusion Forum, 2012, 326-328, 440-445.	0.4	0
61	The Effect of Variable Properties on Rayleigh-Benard Convection in an Enclosure Filled with Al ₂ O ₃ -EG-Water Nanofluid. International Journal of Engineering, Transactions B: Applications, 2012, 26, .	0.6	0
62	Numerical investigation of NO _x reduction in a sudden-expansion combustor with inclined turbulent air jet. Journal of Mechanical Science and Technology, 2012, 26, 3723-3731.	0.7	0
63	An evaluation of force term in the lattice Boltzmann method for mixed convection with large Richardson numbers. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, ahead-of-print, .	1.6	0