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111
papers

3,735
citations

32
h-index

58
g-index

121
ext. papers

4,347
ext. citations

4.1
avg, IF

5.98
L-index

#	Paper	IF	Citations
111	Enhanced heat transfer and friction factor of MWCNT/Fe ₃ O ₄ /water hybrid nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 52, 73-83	5.8	345
110	Hybrid nanofluids preparation, thermal properties, heat transfer and friction factor [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 185-198	16.2	281
109	Investigation of thermal conductivity and viscosity of Fe ₃ O ₄ nanofluid for heat transfer applications. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 44, 7-14	5.8	253
108	A general model for the permeability of fibrous porous media based on fluid flow simulations using the lattice Boltzmann method. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 860-869	8.4	179
107	Thermal conductivity and viscosity of stabilized ethylene glycol and water mixture Al ₂ O ₃ nanofluids for heat transfer applications: An experimental study. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 56, 86-95	5.8	172
106	Thermal conductivity of ethylene glycol and water mixture based Fe ₃ O ₄ nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 49, 17-24	5.8	127
105	Nanodiamond-Fe ₃ O ₄ nanofluids: Preparation and measurement of viscosity, electrical and thermal conductivities. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 73, 62-74	5.8	116
104	Experimental investigation of Al ₂ O ₃ /water nanofluids on the effectiveness of solar flat-plate collectors with and without twisted tape inserts. <i>Renewable Energy</i> , 2018 , 119, 820-833	8.1	91
103	Experimental investigation of the thermal transport properties of graphene oxide/Co ₃ O ₄ hybrid nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 84, 1-10	5.8	88
102	Thermal conductivity and viscosity of hybrid nanofluids prepared with magnetic nanodiamond-cobalt oxide (ND-Co ₃ O ₄) nanocomposite. <i>Case Studies in Thermal Engineering</i> , 2016 , 7, 66-77	5.6	79
101	Thermal conductivity and viscosity of water based nanodiamond (ND) nanofluids: An experimental study. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 245-255	5.8	76
100	Minimization of thermal non-uniformity in lithium-ion battery pack cooled by channeled liquid flow. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 129, 660-670	4.9	71
99	Effects of enhanced surfaces and surface orientation on nucleate and film boiling heat transfer in R-11. <i>International Journal of Heat and Mass Transfer</i> , 1987 , 30, 2627-2639	4.9	65
98	SIMULATION OF COUPLED FLOWS IN ADJACENT POROUS AND OPEN DOMAINS USING A CONTROL-VOLUME FINITE-ELEMENT METHOD. <i>Numerical Heat Transfer; Part A: Applications</i> , 2004 , 45, 675-697	2.3	63
97	Heat transfer, friction factor and effectiveness analysis of Fe ₃ O ₄ /water nanofluid flow in a double pipe heat exchanger with return bend. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 81, 155-163	5.8	61
96	Experimental investigations in heat transfer and friction factor of magnetic Ni nanofluid flowing in a tube. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 70, 224-234	4.9	56
95	Experimental study of heat transfer and friction factor of Al ₂ O ₃ nanofluid in U-tube heat exchanger with helical tape inserts. <i>Experimental Thermal and Fluid Science</i> , 2015 , 62, 141-150	3	55

94	Exergetic and environmental life cycle assessment analysis of concentrated solar power plants. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 56, 145-155	16.2	54
93	Physical and numerical modelling of a solar chimney-based ventilation system for buildings. <i>Building and Environment</i> , 1992 , 27, 433-445	6.5	53
92	Effectiveness analysis of solar flat plate collector with Al ₂ O ₃ water nanofluids and with longitudinal strip inserts. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 422-435	4.9	52
91	Modeling of flow and thermo-kinetics during the cure of thick laminated composites. <i>International Journal of Thermal Sciences</i> , 2003 , 42, 15-22	4.1	52
90	Turbulent heat transfer and friction factor of nanodiamond-nickel hybrid nanofluids flow in a tube: An experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 223-234	4.9	47
89	Heat transfer and friction factor of multi-walled carbon nanotubes/Be ₃ O ₄ nanocomposite nanofluids flow in a tube with/without longitudinal strip inserts. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 100, 691-703	4.9	47
88	Moisture transport in initially fully saturated concrete during drying. <i>Transport in Porous Media</i> , 1996 , 24, 81-106	3.1	46
87	Experimental heat transfer, friction factor and effectiveness analysis of Fe ₃ O ₄ nanofluid flow in a horizontal plain tube with return bend and wire coil inserts. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 109, 440-453	4.9	44
86	Mesoscale SPH modeling of fluid flow in isotropic porous media. <i>Computer Physics Communications</i> , 2007 , 176, 471-480	4.2	43
85	Experimental thermal conductivity and viscosity of nanodiamond-based propylene glycol and water mixtures. <i>Diamond and Related Materials</i> , 2016 , 69, 49-60	3.5	39
84	Effect of twisted tape inserts on heat transfer, friction factor of Fe ₃ O ₄ nanofluids flow in a double pipe U-bend heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2018 , 95, 53-62	5.8	36
83	Through-thickness permeability prediction of three-dimensional multifilament woven fabrics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 453-463	8.4	36
82	Thermal response analysis of LPG tanks exposed to fire. <i>Journal of Hazardous Materials</i> , 1988 , 20, 239-262	2.8	35
81	Experimental investigation of thermo-physical properties, heat transfer, pumping power, entropy generation, and exergy efficiency of nanodiamond-Fe ₃ O ₄ /60:40% water-ethylene glycol hybrid nanofluid flow in a tube. <i>Thermal Science and Engineering Progress</i> , 2021 , 21, 100799	3.6	34
80	Experimental and numerical simulation of flow around two-dimensional hills. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1995 , 54-55, 173-181	3.7	33
79	Wind tunnel and computational study of the stoss slope effect on the aeolian erosion of transverse sand dunes. <i>Aeolian Research</i> , 2011 , 3, 303-314	3.9	32
78	Integrated biomimetic carbon nanotube composites for in vivo systems. <i>Nanoscale</i> , 2010 , 2, 2855-63	7.7	32
77	Prediction of building interference effects on pedestrian level comfort. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2002 , 90, 305-319	3.7	32

76	Electrical conductivity enhancement of nanodiamond-nickel (NDNi) nanocomposite based magnetic nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 57, 1-7	5.8	31
75	Laminar natural convection in a vertical stack of parallelogrammic partial enclosures with variable geometry. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 779-792	4.9	31
74	Control of laminar natural convection in differentially heated square enclosures using solid inserts at the corners. <i>International Journal of Heat and Mass Transfer</i> , 2003 , 46, 3529-3537	4.9	28
73	A study of the effect of the tank diameter on the thermal stratification in LPG tanks subjected to fire engulfment. <i>Journal of Hazardous Materials</i> , 1990 , 25, 19-31	12.8	28
72	Heat transfer, friction factor and effectiveness of Fe ₃ O ₄ nanofluid flow in an inner tube of double pipe U-bend heat exchanger with and without longitudinal strip inserts. <i>Experimental Thermal and Fluid Science</i> , 2017 , 85, 331-343	3	27
71	Properties, heat transfer, energy efficiency and environmental emissions analysis of flat plate solar collector using nanodiamond nanofluids. <i>Diamond and Related Materials</i> , 2020 , 110, 108115	3.5	27
70	Combination of Co ₃ O ₄ deposited rGO hybrid nanofluids and longitudinal strip inserts: Thermal properties, heat transfer, friction factor, and thermal performance evaluations. <i>Thermal Science and Engineering Progress</i> , 2020 , 20, 100695	3.6	26
69	Filling carbon nanotubes with magnetic particles. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2860	7.1	25
68	Neural network analysis of experimental data for air/water spray cooling. <i>Journal of Materials Processing Technology</i> , 2001 , 113, 439-445	5.3	25
67	The Numerical and Experimental Study of a Power Plant Condenser. <i>Journal of Heat Transfer</i> , 1993 , 115, 435-445	1.8	25
66	Heat transfer and friction factor of nanodiamond-nickel hybrid nanofluids flow in a tube with longitudinal strip inserts. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 121, 390-401	4.9	24
65	Moisture and Heat Flow in Concrete Walls Exposed to Fire. <i>Journal of Engineering Mechanics - ASCE</i> , 1994 , 120, 2028-2043	2.4	24
64	Energy, efficiency, economic impact, and heat transfer aspects of solar flat plate collector with Al ₂ O ₃ nanofluids and wire coil with core rod inserts. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 40, 100772	4.7	23
63	NUMERICAL SIMULATION OF TURBULENT FLOW AND FIRE PROPAGATION IN COMPLEX TOPOGRAPHY. <i>Numerical Heat Transfer; Part A: Applications</i> , 1995 , 27, 229-253	2.3	23
62	Heat transfer and effectiveness experimentally-based analysis of wire coil with core-rod inserted in Fe ₃ O ₄ /water nanofluid flow in a double pipe U-bend heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 134, 405-419	4.9	22
61	Prediction of the mechanical properties of hydroxyapatite/polymethyl methacrylate/carbon nanotubes nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4279-84	1.3	22
60	Effective thermal conductivity of heterogeneous multi-component materials: an SPH implementation. <i>Heat and Mass Transfer</i> , 2007 , 43, 479-491	2.2	21
59	Enhanced thermal properties of nanodiamond nanofluids. <i>Chemical Physics Letters</i> , 2016 , 644, 99-110	2.5	19

58	Natural convection in square enclosures filled with fluid-saturated porous media under the influence of the magnetic field induced by two parallel vertical electric currents. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7321-7329	4.9	18
57	Analytical Solution for Hyperbolic Heat Conduction in a Hollow Sphere. <i>Journal of Thermophysics and Heat Transfer</i> , 2005 , 19, 595-598	1.3	17
56	Smoothed Particle Hydrodynamics Modeling of Transverse Flow in Randomly Aligned Fibrous Porous Media. <i>Transport in Porous Media</i> , 2008 , 75, 17-33	3.1	16
55	FMR study of carbon nanotubes filled with Fe ₃ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 358-359, 44-49	2.8	15
54	SPH simulation of transition to turbulence for planar shear flow subjected to a streamwise magnetic field. <i>Journal of Computational Physics</i> , 2006 , 217, 485-501	4.1	15
53	SPH Numerical Modeling for Ballistic-Diffusive Heat Conduction. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2006 , 50, 499-515	1.3	15
52	Full-scale measurements for evaluation of coal dust release from train wagons with two different shelter covers. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2003 , 91, 1271-1283	3.7	14
51	Numerical simulation of non-Darcian flows through spaces partially filled with a porous medium. <i>Computers and Structures</i> , 2004 , 82, 1535-1541	4.5	13
50	A convection-diffusion CFD model for aeolian particle transport. <i>International Journal for Numerical Methods in Fluids</i> , 2004 , 45, 797-817	1.9	13
49	Efficiency, energy and economic analysis of twisted tape inserts in a thermosyphon solar flat plate collector with Cu nanofluids. <i>Renewable Energy Focus</i> , 2020 , 35, 10-31	5.4	13
48	Experimental analysis of exergy efficiency and entropy generation of diamond/water nanofluids flow in a thermosyphon flat plate solar collector. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 120, 105057	5.8	12
47	Computational modeling of the wind erosion on a sinusoidal pile using a moving boundary method. <i>Geomorphology</i> , 2011 , 130, 299-311	4.3	11
46	An efficient algorithm for solving the incompressible fluid flow equations. <i>International Journal for Numerical Methods in Fluids</i> , 1986 , 6, 557-572	1.9	11
45	Heat Transfer of rGO/CO ₃ O ₄ Hybrid Nanomaterial-Based Nanofluids and Twisted Tape Configurations in a Tube. <i>Journal of Thermal Science and Engineering Applications</i> , 2021 , 13,	1.9	11
44	Numerical and experimental analysis of wind erosion on a sinusoidal pile. <i>Environmental Fluid Mechanics</i> , 2011 , 11, 167-181	2.2	9
43	Numerical Simulation of Turbulent Shear Flow in an Isothermal Heat Exchanger Model. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1990 , 112, 48-55	2.1	9
42	A parametric study of the Hazelett thin-slab casting process. <i>Journal of Materials Processing Technology</i> , 1995 , 49, 41-56	5.3	8
41	Flow field predictions in a model heat exchanger. <i>Computational Mechanics</i> , 1988 , 3, 419-428	4	8

40	Biocompatibility and biotoxicity of in-situ synthesized carboxylated nanodiamond-cobalt oxide nanocomposite. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 879-888	9.1	7
39	Effect of a non-constant magnetic field on natural convection in a horizontal porous layer heated from the bottom. <i>Journal of Engineering Mathematics</i> , 2013 , 81, 141-155	1.2	7
38	Fluid flow simulation at open porous medium interface using the lattice Boltzmann method. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 56, 1449-1456	1.9	7
37	SPH Simulation of Low Reynolds Number Planar Shear Flow and Heat Convection. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2005 , 36, 613-619	0.9	7
36	Ignition of epoxy by a high radiation source. A numerical study. <i>International Journal of Thermal Sciences</i> , 1999 , 38, 315-323	4.1	7
35	Mathematical modelling of LPG tanks subjected to full and partial fire engulfment. <i>International Journal for Numerical Methods in Engineering</i> , 1990 , 30, 629-646	2.4	7
34	Heat Transfer and Friction Factor of Al ₂ O ₃ Nanofluid Flow in a Double Pipe U-Tube Heat Exchanger and with Longitudinal Strip Inserts: An Experimental Study. <i>Journal of Nanofluids</i> , 2015 , 4, 293-301	2.2	7
33	The effect of surface regression on the downward flame spread over a solid fuel in a quiescent ambient. <i>Thermal Science</i> , 2007 , 11, 67-86	1.2	7
32	Modelling on the mechanical properties of nanocomposite hydroxyapatite/PMMA/carbon nanotube coatings. <i>International Journal of Nano and Biomaterials</i> , 2007 , 1, 107	0.2	6
31	Deployment of parabolic trough concentrated solar power plants in North Africa a case study for Libya. <i>International Journal of Green Energy</i> , 2019 , 16, 72-85	3	6
30	Prediction of erosion intermittency using Large Eddy Simulation. <i>Geomorphology</i> , 2020 , 364, 107179	4.3	5
29	Simulation of Thermomagnetic Convection in a Cavity Using the Lattice Boltzmann Model. <i>Journal of Applied Mathematics</i> , 2011 , 2011, 1-14	1.1	5
28	Hydrogen adsorption onto nickel modified carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4023-8	1.3	5
27	Transient laminar free convection in horizontal cylinders. <i>Heat and Mass Transfer</i> , 1986 , 20, 59-67		5
26	Biotoxicity study of bone cement based on a functionalised multi-walled carbon nanotube-reinforced PMMA/HAp nanocomposite. <i>International Journal of Nano and Biomaterials</i> , 2009 , 2, 442	0.2	4
25	Thermal entropy and exergy efficiency analyses of nanodiamond/water nanofluid flow in a plate heat exchanger. <i>Diamond and Related Materials</i> , 2021 , 120, 108648	3.5	4
24	SPH as an Inverse Numerical Tool for the Prediction of Diffusive Properties in Porous Media. <i>Materials Science Forum</i> , 2007 , 553, 171-189	0.4	3
23	Numerical investigation of the influence of air gaps upon the solidification in a rotary caster. <i>Journal of Materials Processing Technology</i> , 1995 , 48, 657-665	5.3	3

22	Fire Engulfment of Pressure-Liquefied Gas Tanks: Experiments and Modeling	100-100-16	3
21	The effect of radiation on the laminar natural convection induced by a line heat source. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2006 , 16, 28-45		4.5 2
20	Heat and fluid flow simulation of the melt-drag single-roll strip casting process. <i>Journal of Materials Processing Technology</i> , 1992 , 34, 473-480		5.3 2
19	Arbitrary Motions in Long Cylindrical Squeeze Films: Numerical Model and Experimental Validation. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 1984 , 198, 137-143		1.3 2
18	Evaluation of pressure levels in pipelines due to solar heat gains. <i>Applied Mathematical Modelling</i> , 1985 , 9, 16-20		4.5 2
17	SMOOTHED PARTICLE HYDRODYNAMICS SIMULATION OF EFFECTIVE THERMAL CONDUCTIVITY IN POROUS MEDIA OF VARIOUS PORE STRUCTURES. <i>Journal of Porous Media</i> , 2010 , 13, 951-960		2.9 2
16	The Cobalt Oxide-Based Composite Nanomaterial Synthesis and Its Biomedical and Engineering Applications 2019 ,		2
15	Second law of thermodynamic analysis of 40:60% propylene glycol and water mixture based nanodiamond nanofluid under transition flow. <i>Diamond and Related Materials</i> , 2021 , 117, 108480		3.5 2
14	Solar energy absorbed thermosyphon flat plate collector analysis using Cu/H ₂ O nanofluid [An experimental study. <i>Energy and Climate Change</i> , 2021 , 2, 100028		1.2 2
13	Lattice Boltzmann Simulation of Three-Dimensional Thermomagnetic Convection in a Micro-Channel 2011 ,		1
12	Automated high-throughput screening of carbon nanotube-based bio-nanocomposites for bone cement applications. <i>Pure and Applied Chemistry</i> , 2011 , 83, 2063-2069		2.1 1
11	Modeling of multiphase flow with phase change in porous media [A case study. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2005 , 36, 594-601		0.9 1
10	Three-dimensional numerical predictions of internally heated free convective flows. <i>Heat and Mass Transfer</i> , 1987 , 21, 283-290		1
9	Numerical and experimental simulation of the wind field in the EXPO '98 area. <i>Wind and Structures, an International Journal</i> , 1998 , 1, 337-349		1
8	A CFD study on the Irwin probe flows. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021 , 219, 104808		3.7 1
7	Augmentation of Heat Transfer of High Prandtl Number Fe ₃ O ₄ /vacuum pump oil nanofluids flow in a tube with twisted tape inserts in laminar flow. <i>Heat and Mass Transfer</i> , 2020 , 56, 3111-3125		2.2 1
6	Hydrothermal properties of hybrid nanofluids 2022 , 93-109		0
5	Supplementary information [Computational modeling of the wind erosion on a sinusoidal pile using a moving boundary method, <i>Geomorphology</i> , Volume 130, Issues 3A, Pages 299B11, July 2011. <i>Geomorphology</i> , 2015 , 228, 805-806		4.3

- 4 Large eddy simulation of a tunnel fire using two step combustion chemistry **2007**, 753-753
- 3 Numerical simulation of non-Darcian flows through spaces partially filled with a porous medium. *Computers and Structures*, **2004**, 82, 1535-1535 4-5
- 2 Thermophysical, electrical, magnetic, and dielectric properties of hybrid nanofluids **2022**, 65-92
- 1 Experimental correlations for Nusselt number and friction factor of nanofluids **2022**, 1-23