

# Nidal H Abu-Hamdeh

## List of Publications by Year in descending order

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207  
papers

6,235  
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71004

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107981

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208  
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208  
docs citations

208  
times ranked

4340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical analysis on heat transfer of a pyramid-shaped photovoltaic panel. Journal of Thermal Analysis and Calorimetry, 2022, 147, 1727-1738.	2.0	12
2	Thermal solar sorption cooling systems - A review of principle, technology, and applications. AEJ - Alexandria Engineering Journal, 2022, 61, 367-402.	3.4	30
3	Simulation of hybrid nanofluid flow within a microchannel heat sink considering porous media analyzing CPU stability. Journal of Petroleum Science and Engineering, 2022, 208, 109734.	2.1	93
4	Integration of a solar air heater to a building equipped with PCM to reduce the energy demand. Journal of Building Engineering, 2022, 48, 103948.	1.6	7
5	A case study in the field of sustainability energy: Transient heat transfer analysis of an ice thermal storage system with boiling heat transfer process for air-conditioning application. Energy Reports, 2022, 8, 1034-1045.	2.5	8
6	Thermal management of carbon-based dental laminate via additives carbon nanotube and hydroxyapatite in a vessel micro-flow based on the numerical/empirical data. European Physical Journal Plus, 2022, 137, .	1.2	1
7	Thermal behavior of heat storage system with incorporating nanomaterial. Case Studies in Thermal Engineering, 2022, 31, 101827.	2.8	4
8	Mixing efficiency of hydrogen jet through multi lobe-injectors at scramjet engine: A numerical study. Aerospace Science and Technology, 2022, 120, 107293.	2.5	10
9	Development and Mechanistic Studies of Ternary Nanocomposites for Hydrogen Production from Water Splitting to Yield Sustainable/Green Energy and Environmental Remediation. Polymers, 2022, 14, 1290.	2.0	8
10	Simulation for discharging of phase change material within a porous duct utilizing multi layers. Journal of Petroleum Science and Engineering, 2022, 213, 110305.	2.1	0
11	A review on ferrofluids with the effect of MHD and entropy generation due to convective heat transfer. European Physical Journal Plus, 2022, 137, 1.	1.2	9
12	Simulation for converting of two phase of water in complex container with finite element approach. Journal of Petroleum Science and Engineering, 2022, , 110675.	2.1	0
13	Using proportional-integral-derivative controllers and PCM and a new design of building air intake with five scenarios to present a multi-zone CAV-AHU for tackling high energy consumption. Journal of Building Engineering, 2022, 56, 104764.	1.6	3
14	Measurement of thermophysical properties with nanomaterials on the Melting/Freezing characteristics of phase change material. Measurement: Journal of the International Measurement Confederation, 2022, 199, 111477.	2.5	6
15	Thermal management of a lithium ion battery pack connected to a solar panel using a comparison of two cavities filled with phase change materials: Oval and rectangular. Journal of Energy Storage, 2022, 52, 105061.	3.9	4
16	Thermal systems energy optimization employing two independent circuits of double vertical ground U-tube with PCM as the backfill material for building. Journal of Building Engineering, 2022, 56, 104752.	1.6	2
17	Numerical Crank-Nicolson transient thermal analysis of a single U-tube vertical ground battery borehole heat exchanger filled with the phase change material. Journal of Energy Storage, 2022, 53, 105119.	3.9	7
18	Study of the flat plate solar collector's efficiency for sustainable and renewable energy management in a building by a phase change material: Containing paraffin-wax/Graphene and Paraffin-wax/graphene oxide carbon-based fluids. Journal of Building Engineering, 2022, 57, 104804.	1.6	16

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19	Thermal systems energy optimization using multifunctional hybrid clean solar energy joined with chiller-based cooling: Effects of solar-assisted system on efficiency. Sustainable Energy Technologies and Assessments, 2022, 53, 102397.	1.7	1
20	Effect of lithium-ion batteries on heating a residential building using PCM: Changing the horizontal distance between batteries. Journal of Building Engineering, 2022, 57, 104931.	1.6	0
21	Using PCM for building energy management to postpone the electricity demand peak load and approving a new PID controller to activate alternative chiller. Journal of Building Engineering, 2022, 57, 104884.	1.6	1
22	Reducing electricity demand by integrating a sustainable pack into HVAC- adding PCM in sustainable pack as well as building envelopes. Journal of Building Engineering, 2022, 57, 104915.	1.6	4
23	Increasing electricity generationâ€”Installing photovoltaic cells coupled to a battery pack, to provide the electricity. Journal of Energy Storage, 2022, 54, 105264.	3.9	2
24	Mixed convectionâ€”radiation in lid-driven cavities with nanofluids and time-dependent heat-generating body. Journal of Thermal Analysis and Calorimetry, 2021, 146, 725-738.	2.0	9
25	Experimental investigation on the heat transfer performance of MHTHS using ethylene glycol-based nanofluids. Journal of Thermal Analysis and Calorimetry, 2021, 143, 61-71.	2.0	7
26	Design and multi-criteria optimisation of a trigeneration district energy system based on gas turbine, Kalina, and ejector cycles: Exergoeconomic and exergoenvironmental evaluation. Energy Conversion and Management, 2021, 227, 113581.	4.4	70
27	Surface modification of transversely twisted-turbulator using perforations and winglets: An extended study. International Communications in Heat and Mass Transfer, 2021, 120, 105020.	2.9	7
28	4S consideration (synthesis, sonication, surfactant, stability) for the thermal conductivity of CeO <sub>2</sub> with MWCNT and water based hybrid nanofluid: An experimental assessment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125918.	2.3	85
29	Effects of surfactant on thermal conductivity of aqueous silica nanofluids. Journal of Molecular Liquids, 2021, 327, 114883.	2.3	31
30	Investigation of the effect of the finned coiled wire insert on the heat transfer intensification of circular tube: Energy and exergy analysis. Chemical Engineering and Processing: Process Intensification, 2021, 160, 108245.	1.8	10
31	Molecular dynamics simulation of the thermal properties of the Cu-water nanofluid on a roughed Platinum surface: Simulation of phase transition in nanofluids. Journal of Molecular Liquids, 2021, 327, 114832.	2.3	19
32	An investigation on effects of blade angle and magnetic field on flow and heat transfer of non-Newtonian nanofluids: A numerical simulation. International Communications in Heat and Mass Transfer, 2021, 120, 105074.	2.9	5
33	A three-dimensional computational analysis of ellipsoidal radiator with phase change. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 2072-2087.	1.6	10
34	Approaches for expedition of discharging of PCM involving nanoparticles and radial fins. Journal of Molecular Liquids, 2021, 329, 115052.	2.3	74
35	A novel proposed flexible thin-film solar annular thermoelectric generator. Applied Thermal Engineering, 2021, 183, 116245.	3.0	23
36	Exergetic performance of the helically coiled tube heat exchangers: Comparison the sector-by-sector with tube in tube types. AEJ - Alexandria Engineering Journal, 2021, 60, 979-993.	3.4	10

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37	Numerical modelling of a parallel flow heat exchanger with two-phase heat transfer process. International Communications in Heat and Mass Transfer, 2021, 120, 105005.	2.9	15
38	Third-grade non-Newtonian fluid flow and heat transfer in two coaxial pipes with a variable radius ratio with magnetic field. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 959-981.	1.6	3
39	The role of convective heat transfer coefficient in CuO nanoparticles-PCM cooling ability in heat sinks with insulated side walls: comparison with the air cooled one. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2615.	2.0	0
40	The effect of various forms of the tube cross on the energetic and exergetic analysis of helical tube in tube heat exchangers of an AHU with energy recovery unit in heating mode: injection of vapor/water particles. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2709.	2.0	11
41	Evaluation of a tube equipped with different inserts: competition between improvements in heat transfer versus increase in pressure drop. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2665.	2.0	1
42	Simulation and Analysis with Wavelet Transform Technique and the Vibration Characteristics for Early Revealing of Cracks in Structures. Mathematical Problems in Engineering, 2021, 2021, 1-16.	0.6	13
43	Hydrodynamic analysis of a heat exchanger with crosscut twisted tapes and filled with thermal oil-based SWCNT nanofluid: applying ANN for prediction of objective parameters. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2163-2176.	2.0	4
44	Impact of magnetic dipole on ferromagnetic hybrid nanofluid flow over a stretching cylinder. Physica Scripta, 2021, 96, 045215.	1.2	105
45	Sensitivity analysis on thermophysical properties efficacy on PCM-based heat sink usefulness: effects of solid particles versus liquid phase fraction. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2699.	2.0	2
46	Numerical study on heat loss from the surface of solar collector tube filled by oil-NE-PCM/Al <sub>2</sub> O <sub>3</sub> in the presence of the magnetic field. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2627.	2.0	11
47	Enhancement of heat extraction from solar ponds by using twisted coil tubes. Environmental Progress and Sustainable Energy, 2021, 40, e13604.	1.3	3
48	Efficacy of incorporating PCM into the building envelope on the energy saving and AHU power usage in winter. Sustainable Energy Technologies and Assessments, 2021, 43, 100969.	1.7	17
49	The effects of using corrugated booster reflectors to improve the performance of a novel solar collector to apply in cooling PV cells-Navigating performance using ANN. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2151-2162.	2.0	4
50	Charging process of thermal energy storage system under varying incident heat flux: interaction the fluid neighbour nodes and particles in order to heat transfer. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2423.	2.0	7
51	Heat recovery application of nanomaterial with existence of turbulator. Journal of Molecular Liquids, 2021, 326, 115268.	2.3	103
52	The thermal properties of water-copper nanofluid in the presence of surfactant molecules using molecular dynamics simulation. Journal of Molecular Liquids, 2021, 325, 115149.	2.3	26
53	Exergoeconomic analysis of a Peltier effect air cooler using experimental data. Applied Thermal Engineering, 2021, 186, 116513.	3.0	16
54	Use of artificial neural network in forecasting optimal distance of enclosures containing PCM-introduced for improving the performance of the evacuated tube solar collectors. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2177-2190.	2.0	6

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55	Exergetic performance analysis on helically coiled tube heat exchanger-forecasting thermal conductivity of SiO <sub>2</sub> /EG nanofluid using ANN and RSM to examine effectiveness of using nanofluids. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2721.	2.0	3
56	Numerical study and artificial neural network modeling of the tube banks arrangement considering exergetic performance. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2241-2259.	2.0	0
57	Analysis of double U-tube ground heat exchanger for renewable energy applications with two-region simulation model by combining analytical and numerical techniques. International Communications in Heat and Mass Transfer, 2021, 123, 105144.	2.9	21
58	Nanomaterial transportation and exergy loss modeling incorporating CVFEM. Journal of Molecular Liquids, 2021, 330, 115591.	2.3	60
59	Effect of multibanded magnetic field on convective heat transport in linearly heated porous systems filled with hybrid nanofluid. Physics of Fluids, 2021, 33, .	1.6	49
60	Multi-objective optimization of heat transfer through the various types of tube banks arrangements. AEJ - Alexandria Engineering Journal, 2021, 60, 2905-2919.	3.4	3
61	The effects of incident solar radiation on the collector efficiency using coolant hybrid nanofluid via simulation of solar tower system with the parallel heat exchangers. Journal of the Taiwan Institute of Chemical Engineers, 2021, 124, 106-115.	2.7	11
62	Multiple-relaxation-time lattice Boltzmann analysis of entropy generation in a hot-block-inserted square cavity for different Prandtl numbers. International Journal of Thermal Sciences, 2021, 165, 106948.	2.6	12
63	Annual performance analysis of small scale industrial waste heat assisted solar tower power plant and application of nanofluid. Journal of the Taiwan Institute of Chemical Engineers, 2021, 124, 216-227.	2.7	18
64	Numerical investigation of molten salt/SiO <sub>2</sub> nano-fluid in the solar power plant cycle and examining different arrangements of shell and tube heat exchangers and plate heat exchangers in these cycles. Journal of the Taiwan Institute of Chemical Engineers, 2021, 124, 1-8.	2.7	8
65	An investigation of the second law performance for a condenser used in 210MW thermal power station. Case Studies in Thermal Engineering, 2021, 26, 100992.	2.8	4
66	Mixing efficiency of hydrogen and air co-flow jets via wedge shock generator in dual-combustor ramjet. Aerospace Science and Technology, 2021, 116, 106846.	2.5	26
67	Using phase change material as an energy-efficient technique to reduce energy demand in air handling unit integrated with absorption chiller and recovery unit. Applicable for high solar-irradiance regions. Journal of Energy Storage, 2021, 42, 103080.	3.9	31
68	Multi-physics investigation within a porous media with involving magnetic field impact on nanofluid. Journal of Petroleum Science and Engineering, 2021, 207, 109173.	2.1	10
69	Influence of upstream angled ramp on fuel mixing of hydrogen jet at supersonic cross flow. Aerospace Science and Technology, 2021, 119, 107099.	2.5	7
70	FVM method based on $K-\hat{\mu}$ model to simulate the turbulent convection of nanofluid through the heat exchanger porous media. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2689.	2.0	1
71	Performing regression-based methods on viscosity of nano-enhanced PCM - Using ANN and RSM. Journal of Materials Research and Technology, 2021, 10, 1184-1194.	2.6	14
72	A computational analysis of heat transport irreversibility phenomenon in a magnetized porous channel. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 2197-2222.	1.6	44

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73	Entropy Optimization of First-Grade Viscoelastic Nanofluid Flow over a Stretching Sheet by Using Classical Keller-Box Scheme. <i>Mathematics</i> , 2021, 9, 2563.	1.1	57
74	Using Phase Change Materials (PCMs) in a Hot and Humid Climate to Reduce Heat Gain and Energy Consumption. <i>Sustainability</i> , 2021, 13, 10965.	1.6	3
75	A Significant Solar Energy Note on Powell-Eyring Nanofluid with Thermal Jump Conditions: Implementing Cattaneo-Christov Heat Flux Model. <i>Mathematics</i> , 2021, 9, 2669.	1.1	51
76	On the solitary wave solution of the viscosity capillarity van der Waals p-system along with Painleve analysis. <i>Chaos, Solitons and Fractals</i> , 2021, 153, 111495.	2.5	6
77	Heat storage unit for melting of paraffin considering hybrid nanomaterial and helical tubes. <i>Journal of Energy Storage</i> , 2021, 44, 103427.	3.9	1
78	Implicit Finite Difference Simulation of Prandtl-Eyring Nanofluid over a Flat Plate with Variable Thermal Conductivity: A Tiwari and Das Model. <i>Mathematics</i> , 2021, 9, 3153.	1.1	16
79	Thermogravitational convection of $Al_2O_3-H_2O$ nanofluid in a square chamber with intermittent blocks. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 1365-1378.	1.6	4
80	Mixed convection of $Al_2O_3-H_2O$ nanofluid in a square chamber with complicated fin. <i>International Journal of Mechanical Sciences</i> , 2020, 165, 105192.	3.6	55
81	Natural convection in nanofluid filled and partially heated annulus: Effect of different arrangements of heaters. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 538, 122479.	1.2	30
82	Magnetohydrodynamic flow and heat transfer of ferrofluid in a channel with non-symmetric cavities. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 811-823.	2.0	15
83	Analysis of the thermal and hydraulic performance of the sector-by-sector helically coiled tube heat exchangers as a new type of heat exchangers. <i>International Journal of Thermal Sciences</i> , 2020, 150, 106229.	2.6	25
84	Impacts of conductive inner L-shaped obstacle and elastic bottom wall on MHD forced convection of a nanofluid in vented cavity. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 465-482.	2.0	6
85	MHD thermogravitational convection and thermal radiation of a micropolar nanofluid in a porous chamber. <i>International Communications in Heat and Mass Transfer</i> , 2020, 110, 104409.	2.9	98
86	Performance prediction of a solar refrigeration system under various operating pressure of evaporator and condenser. <i>Solar Energy</i> , 2020, 209, 485-492.	2.9	16
87	Nanoparticle enhanced PCM energy loss and thermal behavior by means of FVM. <i>Journal of Molecular Liquids</i> , 2020, 320, 114457.	2.3	133
88	Effects of ribs on thermal performance of curved absorber tube used in cylindrical solar collectors. <i>Renewable Energy</i> , 2020, 161, 1260-1275.	4.3	16
89	Controlled drug delivery using the magnetic nanoparticles in non-Newtonian blood vessels. <i>AJ - Alexandria Engineering Journal</i> , 2020, 59, 4049-4062.	3.4	21
90	Hydrothermal irreversibility analysis based on multi-criteria assessment in a modified spiral piping system utilized in solar ponds. <i>Renewable Energy</i> , 2020, 162, 355-370.	4.3	12

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91	Double diffusive buoyancy induced convection in stepwise open porous cavities filled nanofluid. International Communications in Heat and Mass Transfer, 2020, 119, 104949.	2.9	12
92	Darcy-Brinkman flow of a viscous fluid through a porous duct: Application in blood filtration process. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 223-230.	2.7	12
93	A computational study on mixed convection in a porous media filled and partially heated lid-driven cavity with an open side. AEJ - Alexandria Engineering Journal, 2020, 59, 1735-1750.	3.4	20
94	The effect of injection pressure on the thermal performance and emission characteristics of an oil burner operating on B20 palm oil biodiesel-diesel blend fuel. Fuel, 2020, 278, 118174.	3.4	21
95	Energy and exergy analysis and optimum working conditions of a renewable energy system using a transient systems simulation program. Energy Exploration and Exploitation, 2020, 38, 1248-1261.	1.1	8
96	Thermal and hydraulic performance of the twisted tube bank as a new arrangement and its comparison with other common arrangements. Chemical Engineering Research and Design, 2020, 157, 46-57.	2.7	5
97	Free convection and entropy generation of a nanofluid in a tilted triangular cavity exposed to a magnetic field with sinusoidal wall temperature distribution considering radiation effects. International Communications in Heat and Mass Transfer, 2020, 112, 104507.	2.9	90
98	Heat transfer optimization through new form of pin type of finned tube heat exchangers using the exergy and energy analysis. International Journal of Refrigeration, 2020, 117, 12-22.	1.8	14
99	Study of heat transfer intensification through new types of tubular heat exchangers with rod bank insert. Chemical Engineering and Processing: Process Intensification, 2020, 152, 107912.	1.8	2
100	Investigation of the impact of the reactants temperature and equivalence ratio on the outlet mixture temperature, velocity and mole fraction for the combustion of the carbon monoxide and nitrous. AEJ - Alexandria Engineering Journal, 2020, 59, 1013-1025.	3.4	1
101	Navigating viscosity of ferrofluid using response surface methodology and artificial neural network. Journal of Materials Research and Technology, 2020, 9, 16339-16348.	2.6	6
102	Mixed convection heat transfer of a nanofluid in a lid-driven enclosure with two adherent porous blocks. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1095-1105.	2.0	32
103	Effect of tillage systems and polyacrylamide on soil physical properties and wheat grain yield in arid regions differing in fine soil particles. Archives of Agronomy and Soil Science, 2019, 65, 182-196.	1.3	13
104	Coupled FHD-MHD free convection of a hybrid nanofluid in an inversed T-shaped enclosure occupied by partitioned porous media. Numerical Heat Transfer; Part A: Applications, 2019, 76, 479-498.	1.2	85
105	Effect of magnetic field on mixed convection and entropy generation of hybrid nanofluid in an inclined enclosure: Sensitivity analysis and optimization. European Physical Journal Plus, 2019, 134, 1.	1.2	91
106	Optimal selection and techno-economic analysis of a hybrid power generation system. Journal of Renewable and Sustainable Energy, 2019, 11, 055902.	0.8	4
107	Three-dimensional analysis of natural convection in nanofluid-filled parallelogrammic enclosure opened from top and heated with square heater. Journal of Central South University, 2019, 26, 1077-1088.	1.2	19
108	Thermal convection in Al <sub>2</sub> O <sub>3</sub> -water nanofluid rotating chamber with a local isothermal heater. International Journal of Mechanical Sciences, 2019, 156, 137-145.	3.6	21

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109	Forced Convection of Fe <sub>3</sub> O <sub>4</sub> -Water Nanofluid in a Bifurcating Channel under the Effect of Variable Magnetic Field. <i>Energies</i> , 2019, 12, 666.	1.6	36
110	Three-dimensional analysis of heat transfer in a channel provided with solid baffle, single and double perforation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 4267-4280.	1.6	1
111	Numerical Study of Periodic Magnetic Field Effect on 3D Natural Convection of MWCNT-Water/Nanofluid with Consideration of Aggregation. <i>Processes</i> , 2019, 7, 957.	1.3	23
112	Techno-economic comparison of solar power tower system/photovoltaic system/wind turbine/diesel generator in supplying electrical energy to small loads. <i>Journal of Taibah University for Science</i> , 2019, 13, 216-224.	1.1	44
113	Nanoparticle transportation of CuO-H <sub>2</sub> O nanofluid in a porous semi annulus due to Lorentz forces. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 294-308.	1.6	22
114	Assessment of thermal performance of PCM in latent heat storage system for different applications. <i>Solar Energy</i> , 2019, 177, 317-323.	2.9	55
115	Heat transfer intensification induced by electrically generated convection between two elliptical cylinders. <i>International Journal of Thermal Sciences</i> , 2019, 135, 523-532.	2.6	16
116	Mixed convection due to a rotating cylinder in a 3D corrugated cavity filled with single walled CNT-water nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 341-355.	2.0	13
117	CONTROL OF HEAT TRANSFER AND FLUID FLOW VIA A MOVING FIN IN A TRIANGULAR ENCLOSURE FILLED WITH NANOFUID. <i>Heat Transfer Research</i> , 2019, 50, 159-181.	0.9	8
118	EFFECTS OF VARIABLE TEMPERATURE ON MIXED CONVECTION OF A CU-WATER NANOFUID IN A DOUBLE-LID-DRIVEN POROUS ENCLOSURE WITH ACTIVE MIDDLE VERTICAL WALL. <i>Journal of Porous Media</i> , 2019, 22, 481-497.	1.0	1
119	Mixed convection characteristic in a lid-driven cavity containing heated triangular block: Effect of location and size of block. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 860-875.	2.5	46
120	Effect of geometrical parameters on natural convection in a porous undulant-wall enclosure saturated by a nanofluid using Buongiorno's model. <i>Journal of Molecular Liquids</i> , 2018, 255, 148-159.	2.3	50
121	Effects of inclined magnetic field on mixed convection in a nanofluid filled double lid-driven cavity with volumetric heat generation or absorption using finite element method. <i>Chinese Journal of Physics</i> , 2018, 56, 484-501.	2.0	53
122	3D magneto-convective heat transfer in CNT-nanofluid filled cavity under partially active magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 99, 294-303.	1.3	85
123	Transient natural convection in a partially open trapezoidal cavity filled with a water-based nanofluid under the effects of Brownian diffusion and thermophoresis. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018, 28, 606-623.	1.6	37
124	MHD natural convection and entropy generation of ferrofluid in an open trapezoidal cavity partially filled with a porous medium. <i>International Journal of Mechanical Sciences</i> , 2018, 136, 493-502.	3.6	160
125	Natural convection of alumina-water nanofluid in an open cavity having multiple porous layers. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 648-657.	2.5	82
126	Mixed convection with entropy generation of nanofluid in a lid-driven cavity under the effects of a heat-conducting solid wall and vertical temperature gradient. <i>European Journal of Mechanics, B/Fluids</i> , 2018, 70, 148-159.	1.2	34



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127	Free Convection in an Open Triangular Cavity Filled With a Nanofluid Under the Effects of Brownian Diffusion, Thermophoresis and Local Heater. <i>Journal of Heat Transfer</i> , 2018, 140, .	1.2	11
128	Mixed convection of Al <sub>2</sub> O <sub>3</sub> -water nanofluid in a lid-driven cavity having two porous layers. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 527-537.	2.5	80
129	Numerical study of a three-dimensional forced laminar flow in a channel equipped with a perforated baffle. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 73, 881-894.	1.2	16
130	Natural convection of a nanofluid between two eccentric cylinders saturated by porous material: Buongiorno's two phase model. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 67-75.	2.5	56
131	MHD mixed convective heat transfer in a lid-driven enclosure filled with Ag-water nanofluid with center heater. <i>International Journal of Mechanical Sciences</i> , 2018, 142-143, 407-419.	3.6	53
132	Natural convective heat transfer of Ag-water nanofluid flow inside enclosure with center heater and bottom heat source. <i>Chinese Journal of Physics</i> , 2018, 56, 1497-1507.	2.0	50
133	Natural convection of Al <sub>2</sub> O <sub>3</sub> /H <sub>2</sub> O nanofluid in an open inclined cavity with a heat-generating element. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 184-191.	2.5	53
134	Three-dimensional computational fluid dynamics analysis of buoyancy-driven natural ventilation and entropy generation in a prismatic greenhouse. <i>Thermal Science</i> , 2018, 22, 73-85.	0.5	16
135	Magnetohydrodynamic mixed thermo-bioconvection in porous cavity filled by oxytactic microorganisms. <i>Thermal Science</i> , 2018, 22, 2711-2721.	0.5	21
136	Runoff and erosion as affected by tillage system and polyacrylamide in two sandy loam soils differing in silt and clay contents in semi-arid regions. <i>Soil and Environment</i> , 2018, 37, 11-20.	1.1	6
137	Numerical investigation and sensitivity analysis of effective parameters to obtain potential maximum power output: A case study on Zanjan prototype solar chimney power plant. <i>Energy Conversion and Management</i> , 2017, 136, 350-360.	4.4	40
138	A review on exergy analysis of solar electricity production. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 755-770.	8.2	99
139	Heatline visualization of natural convection in a thick walled open cavity filled with a nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 175-186.	2.5	75
140	Analysis of the electro-thermo-convection induced by a strong unipolar injection between two concentric or eccentric cylinders. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 789-804.	1.2	27
141	Effects of moving lid direction on mixed convection and entropy generation in a cubical cavity with longitudinal triangular fin insertion. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 839-860.	1.6	5
142	Natural convection of nanofluid inside a wavy cavity with a non-uniform heating. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 958-980.	1.6	123
143	Numerical analysis of entropy generation due to natural convection in three-dimensional partially open enclosures. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 75, 131-140.	2.7	31
144	Unsteady natural convection with entropy generation in partially open triangular cavities with a local heat source. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 2696-2716.	1.6	10

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145	Construction and numerical analysis of a collapsible vertical axis wind turbine. <i>Energy Conversion and Management</i> , 2017, 151, 400-413.	4.4	29
146	Natural convection in a differentially heated enclosure having two adherent porous blocks saturated with a nanofluid. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	5
147	Effect of uniform inclined magnetic field on mixed convection in a lid-driven cavity having a horizontal porous layer saturated with a ferrofluid. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 1086-1097.	2.5	105
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