

# Mohsen Sharifpur

## List of Publications by Year in descending order

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195  
papers

4,822  
citations

101384

36  
h-index

138251

58  
g-index

198  
all docs

198  
docs citations

198  
times ranked

2422  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Thermal Conductivity Models for Nanofluids. <i>Heat Transfer Engineering</i> , 2015, 36, 1085-1110.	1.2	191
2	Nanofluids: Physical phenomena, applications in thermal systems and the environment effects- a critical review. <i>Journal of Cleaner Production</i> , 2021, 320, 128573.	4.6	183
3	The Viscosity of Nanofluids: A Review of the Theoretical, Empirical, and Numerical Models. <i>Heat Transfer Engineering</i> , 2016, 37, 387-421.	1.2	178
4	Influence of base fluid, temperature, and concentration on the thermophysical properties of hybrid nanofluids of alumina-ferrofluid: experimental data, modeling through enhanced ANN, ANFIS, and curve fitting. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 4149-4167.	2.0	151
5	Natural convective heat transfer and entropy generation of alumina/water nanofluid in a tilted enclosure with an elliptic constant temperature: Applying magnetic field and radiation effects. <i>International Journal of Mechanical Sciences</i> , 2020, 174, 105470.	3.6	130
6	Experimental investigation on cavity flow natural convection of Al <sub>2</sub> O <sub>3</sub> -water nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 316-324.	2.9	118
7	A review of magnetic field influence on natural convection heat transfer performance of nanofluids in square cavities. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2581-2623.	2.0	115
8	Experimental study of thermo-convection performance of hybrid nanofluids of Al <sub>2</sub> O <sub>3</sub> -MWCNT/water in a differentially heated square cavity. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119072.	2.5	95
9	A new model for density of nanofluids including nanolayer. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 168-174.	2.9	92
10	Thermodynamic and economic analysis of performance evaluation of all the thermal power plants: A review. <i>Energy Science and Engineering</i> , 2019, 7, 30-65.	1.9	87
11	Experimental study on natural convection of MWCNT-water nanofluids in a square enclosure. <i>International Communications in Heat and Mass Transfer</i> , 2017, 88, 1-8.	2.9	84
12	Experimental investigation and model development for effective viscosity of Al <sub>2</sub> O <sub>3</sub> -glycerol nanofluids by using dimensional analysis and GMDH-NN methods. <i>International Communications in Heat and Mass Transfer</i> , 2015, 68, 208-219.	2.9	76
13	Thermodynamic evaluation and multi-objective optimization of molten carbonate fuel cell-supercritical CO <sub>2</sub> Brayton cycle hybrid system. <i>Energy Conversion and Management</i> , 2017, 153, 538-556.	4.4	76
14	Application of the FCM-based neuro-fuzzy inference system and genetic algorithm-polynomial neural network approaches to modelling the thermal conductivity of alumina-water nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 971-977.	2.9	73
15	CFD modelling of heat transfer and pressure drops for nanofluids through vertical tubes in laminar flow by Lagrangian and Eulerian approaches. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 803-813.	2.5	69
16	Experimental investigation and model development for thermal conductivity of Al <sub>2</sub> O <sub>3</sub> -glycerol nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017, 85, 12-22.	2.9	67
17	Experimental investigation of convection heat transfer in the transition flow regime of aluminium oxide-water nanofluids in a rectangular channel. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 895-902.	2.5	64
18	Experimental investigation and model development for effective viscosity of MgO-ethylene glycol nanofluids by using dimensional analysis, FCM-ANFIS and GA-PNN techniques. <i>International Communications in Heat and Mass Transfer</i> , 2016, 72, 71-83.	2.9	63

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19	Optimum concentration of nanofluids for heat transfer enhancement under cavity flow natural convection with TiO <sub>2</sub> –Water. International Communications in Heat and Mass Transfer, 2018, 98, 297-303.	2.9	63
20	Experimental Investigation on Stability, Viscosity, and Electrical Conductivity of Water-Based Hybrid Nanofluid of MWCNT-Fe <sub>2</sub> O <sub>3</sub> . Nanomaterials, 2021, 11, 136.	1.9	62
21	Effects of uniform magnetic induction on heat transfer performance of aqueous hybrid ferrofluid in a rectangular cavity. Applied Thermal Engineering, 2020, 170, 115004.	3.0	60
22	Viscosity of nanofluids based on an artificial intelligence model. International Communications in Heat and Mass Transfer, 2013, 43, 16-21.	2.9	59
23	Effect of U-shaped absorber tube on thermal-hydraulic performance and efficiency of two-fluid parabolic solar collector containing two-phase hybrid non-Newtonian nanofluids. International Journal of Mechanical Sciences, 2020, 185, 105832.	3.6	55
24	Performance enhancement of a two-phase closed thermosiphon with a thin porous copper coating. International Communications in Heat and Mass Transfer, 2017, 82, 9-19.	2.9	53
25	Experimental study on the influence of the aspect ratio of square cavity on natural convection heat transfer with Al <sub>2</sub> O <sub>3</sub> /Water nanofluids. International Communications in Heat and Mass Transfer, 2017, 88, 254-261.	2.9	53
26	On the specific heat capacity estimation of metal oxide-based nanofluid for energy perspective – A comprehensive assessment of data analysis techniques. International Communications in Heat and Mass Transfer, 2021, 123, 105217.	2.9	51
27	Numerical simulation of the effect of battery distance and inlet and outlet length on the cooling of cylindrical lithium-ion batteries and overall performance of thermal management system. Journal of Energy Storage, 2022, 45, 103714.	3.9	51
28	Influence of ultrasonication energy on the dispersion consistency of Al <sub>2</sub> O <sub>3</sub> –glycerol nanofluid based on viscosity data, and model development for the required ultrasonication energy density. Journal of Experimental Nanoscience, 2016, 11, 630-649.	1.3	50
29	Optimal Load Frequency Control of Island Microgrids via a PID Controller in the Presence of Wind Turbine and PV. Sustainability, 2021, 13, 10728.	1.6	48
30	Natural convection enhancement in a porous cavity with Al <sub>2</sub> O <sub>3</sub> -Ethylene glycol/water nanofluids. International Journal of Heat and Mass Transfer, 2017, 108, 1324-1334.	2.5	45
31	Magneto-fluid dynamic and second law analysis in a hot porous cavity filled by nanofluid and nano-encapsulated phase change material suspension with different layout of cooling channels. Journal of Energy Storage, 2020, 31, 101720.	3.9	45
32	Heat Transfer and Flow Characteristics of Al <sub>2</sub> O <sub>3</sub> /Water Nanofluid in Various Heat Exchangers: Experiments on Counter Flow. Heat Transfer Engineering, 2020, 41, 220-234.	1.2	43
33	Enhancement in heat transfer of a ferrofluid in a differentially heated square cavity through the use of permanent magnets. Journal of Magnetism and Magnetic Materials, 2017, 443, 149-158.	1.0	42
34	3D experimental visualization of water flooding in proton exchange membrane fuel cells. Energy, 2019, 175, 967-977.	4.5	42
35	Investigation Into Effective Viscosity, Electrical Conductivity, and pH of Al <sub>2</sub> O <sub>3</sub> -Glycerol Nanofluids in Einstein Concentration Regime. Heat Transfer Engineering, 2015, 36, 1241-1251.	1.2	38
36	Factors affecting the pH and electrical conductivity of MgO–ethylene glycol nanofluids. Bulletin of Materials Science, 2015, 38, 1345-1357.	0.8	38

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37	Numerical study on performance of double-fluid parabolic trough solar collector occupied with hybrid non-Newtonian nanofluids: Investigation of effects of helical absorber tube using deep learning. <i>Engineering Analysis With Boundary Elements</i> , 2022, 140, 562-580.	2.0	38
38	Thermal characteristics of CPU cooling by using a novel porous heat sink and nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 805-817.	2.0	35
39	Experimental investigation into heat transfer performance of water-based magnetic hybrid nanofluids in a rectangular cavity exposed to magnetic excitation. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104698.	2.9	35
40	Modelling of <i>Nicotiana Tabacum</i> L. Oil Biodiesel Production: Comparison of ANN and ANFIS. <i>Frontiers in Energy Research</i> , 2021, 8, .	1.2	35
41	Thermal performance enhancement in heat exchangers using active and passive techniques: a detailed review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 9229-9281.	2.0	35
42	Estimating the Heat Capacity of Non-Newtonian Ionanofluid Systems Using ANN, ANFIS, and SGB Tree Algorithms. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6432.	1.3	34
43	Magnetohydrodynamic convection behaviours of nanofluids in non-square enclosures: A comprehensive review. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	34
44	A novel long term solar photovoltaic power forecasting approach using LSTM with Nadam optimizer: A case study of India. <i>Energy Science and Engineering</i> , 2022, 10, 2909-2929.	1.9	34
45	The Effects of Fin Parameters on the Solidification of PCMs in a Fin-Enhanced Thermal Energy Storage System. <i>Energies</i> , 2020, 13, 198.	1.6	33
46	A study on the effects of forced air-cooling enhancements on a 150W solar photovoltaic thermal collector for green cities. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101782.	1.7	33
47	Natural Convection and Entropy Generation of MgO/Water Nanofluids in the Enclosure under a Magnetic Field and Radiation Effects. <i>Processes</i> , 2021, 9, 1277.	1.3	32
48	Characterisation of a grooved heat pipe with an anodised surface. <i>Heat and Mass Transfer</i> , 2017, 53, 753-763.	1.2	30
49	Experimental measurement of viscosity and electrical conductivity of water-based $\text{Al}_2\text{O}_3/\text{MWCNT}$ hybrid nanofluids with various particle mass ratios. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1037-1050.	2.0	30
50	Effects of Different Wall Shapes on Thermal-Hydraulic Characteristics of Different Channels Filled with Water Based Graphite-SiO <sub>2</sub> Hybrid Nanofluid. <i>Processes</i> , 2021, 9, 1253.	1.3	30
51	Simulation of melting and solidification of graphene nanoparticles-PCM inside a dual tube heat exchanger with extended surface. <i>Journal of Energy Storage</i> , 2021, 44, 103265.	3.9	30
52	Numerical calculations of the thermal-aerodynamic characteristics in a solar duct with multiple V-baffles. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 1173-1197.	1.5	29
53	Effect of Inclined Magnetic Field on the Entropy Generation in an Annulus Filled with NEPCM Suspension. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-14.	0.6	29
54	Energy/Economic Analysis and Optimization of On-Grid Photovoltaic System Using CPSO Algorithm. <i>Sustainability</i> , 2021, 13, 12420.	1.6	28

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55	Combination of baffling technique and high-thermal conductivity fluids to enhance the overall performances of solar channels. <i>Engineering With Computers</i> , 2022, 38, 607-628.	3.5	27
56	Aggregation study of Brownian nanoparticles in convective phenomena. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 111-121.	2.0	26
57	Experimental Research and Development on the Natural Convection of Suspensions of Nanoparticles—A Comprehensive Review. <i>Nanomaterials</i> , 2020, 10, 1855.	1.9	26
58	Hydrogen Production from Water Splitting through Photocatalytic Activity of Carbon-Based Materials. <i>Chemical Engineering and Technology</i> , 2023, 46, 420-434.	0.9	26
59	Nanofluid Viscosity: A simple model selection algorithm and parametric evaluation. <i>Computers and Fluids</i> , 2014, 101, 241-249.	1.3	25
60	Study of particle migration and deposition in mixed convective pipe flow of nanofluids at different inclination angles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1563-1575.	2.0	25
61	Influence of nanoparticles size, per cent mass ratio, and temperature on the thermal properties of water-based MgO–ZnO nanofluid: an experimental approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1063-1079.	2.0	25
62	Numerical investigation into mutual effects of soil thermal and isothermal properties on heat and moisture transfer in unsaturated soil applied as thermal storage system. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 73, 466-481.	1.2	24
63	Energy, exergy and economics study of a solar/thermal panel cooled by nanofluid. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101481.	2.8	24
64	Comparative Analysis of Five Widely-Used Multi-Criteria Decision-Making Methods to Evaluate Clean Energy Technologies: A Case Study. <i>Sustainability</i> , 2022, 14, 1403.	1.6	24
65	A Review and Parametric Investigation Into Nanofluid Viscosity Models. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2014, 5, .	0.8	23
66	Turbulent Flow Heat Transfer through a Circular Tube with Novel Hybrid Grooved Tape Inserts: Thermohydraulic Analysis and Prediction by Applying Machine Learning Model. <i>Sustainability</i> , 2021, 13, 3068.	1.6	23
67	RAM analysis and availability optimization of thermal power plant water circulation system using PSO. <i>Energy Reports</i> , 2021, 7, 1133-1153.	2.5	22
68	Energy, exergy and economic investigation of passive and active inclined solar still: experimental study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1091-1102.	2.0	22
69	A hydrophobic-hydrophilic MXene/PVDF composite hollow fiber membrane with enhanced antifouling properties for seawater desalination. <i>Journal of Membrane Science</i> , 2022, 644, 120146.	4.1	22
70	Modelling and multi-objective optimisation of the convective heat transfer characteristics and pressure drop of low concentration TiO <sub>2</sub> –water nanofluids in the turbulent flow regime. <i>International Journal of Heat and Mass Transfer</i> , 2013, 67, 646-653.	2.5	21
71	Fluid flow and heat transfer analysis of nanofluid jet cooling on a hot surface with various roughness. <i>International Communications in Heat and Mass Transfer</i> , 2020, 118, 104842.	2.9	21
72	Thermal analysis of a nanofluid free jet impingement on a rotating disk using volume of fluid in combination with discrete modelling. <i>International Journal of Thermal Sciences</i> , 2020, 158, 106532.	2.6	20

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73	Thermodynamic and exergoeconomic analyses and performance assessment of a new configuration of a combined cooling and power generation system based on ORC-VCR. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1163-1189.	2.0	20
74	Heat transfer and exergy analysis of solar air heater tube with helical corrugation and perforated circular disc inserts. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1019-1034.	2.0	20
75	The computational study of nanoparticles shape effects on thermal behavior of H <sub>2</sub> O-Fe nanofluid: A molecular dynamics approach. Journal of Molecular Liquids, 2022, 346, 117093.	2.3	19
76	Enhancing the energy and exergy performance of a photovoltaic thermal system with $\phi$ -shape collector using porous metal foam. Journal of Cleaner Production, 2022, 368, 133121.	4.6	19
77	Experimental Investigation into Natural Convection of Zinc Oxide/Water Nanofluids in a Square Cavity. Heat Transfer Engineering, 2021, 42, 1675-1687.	1.2	18
78	A new combination of nanoparticles mass diffusion flux and slip mechanism approaches with electrostatic forces in a natural convective cavity flow. International Journal of Heat and Mass Transfer, 2017, 106, 980-988.	2.5	17
79	Heat transfer and pressure drop in turbulent nanofluid flow in a pin-fin heat sink: Fin and nanoparticles shape effects. Case Studies in Thermal Engineering, 2021, 28, 101378.	2.8	17
80	Experimental Investigation and Model Development for Thermal Conductivity of Glycerol-MgO Nanofluids. Heat Transfer Engineering, 2016, 37, 1538-1553.	1.2	16
81	Discrete modelling of nanoparticles in mixed convection flows. Powder Technology, 2018, 338, 243-252.	2.1	16
82	An extensive review on thermodynamic aspect based solar desalination techniques. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1103-1119.	2.0	16
83	Effect of Various Surfactants on the Viscosity, Thermal and Electrical Conductivity of Graphene Nanoplatelets Nanofluid. International Journal of Thermophysics, 2021, 42, 1.	1.0	16
84	Impact of Fusion Temperature on Hydrothermal Features of Flow within an Annulus Loaded with Nanoencapsulated Phase Change Materials (NEPCMs) during Natural Convection Process. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	16
85	Experimental and numerical study of the thermal and hydrodynamic characteristics of laminar natural convective flow inside a rectangular cavity with water, ethylene glycol-water and air. Experimental Thermal and Fluid Science, 2016, 78, 50-64.	1.5	15
86	The effect of nanoparticle shape on alumina/EG-water (50:50) nanofluids flow within a solar collector: Entropy and exergy investigation. Case Studies in Thermal Engineering, 2021, 28, 101510.	2.8	15
87	Experimental investigation of heat transfer performance of novel bio-extract doped mono and hybrid nanofluids in a radiator. Case Studies in Thermal Engineering, 2021, 28, 101494.	2.8	15
88	Evaluation of Thermochemical Characteristics and Pyrolysis of Fish Processing Waste for Renewable Energy Feedstock. Sustainability, 2022, 14, 1203.	1.6	15
89	A novel combined model of discrete and mixture phases for nanoparticles in convective turbulent flow. Physics of Fluids, 2017, 29, .	1.6	14
90	Exergetic and economic optimization of a solar-based cogeneration system applicable for desalination and power production. Journal of Thermal Analysis and Calorimetry, 2021, 145, 993-1003.	2.0	14

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91	Experimental investigation of heat transfer and exergy loss in heat exchanger with air bubble injection technique. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 727-737.	2.0	14
92	Predicting Parameters of Heat Transfer in a Shell and Tube Heat Exchanger Using Aluminum Oxide Nanofluid with Artificial Neural Network (ANN) and Self-Organizing Map (SOM). <i>Sustainability</i> , 2021, 13, 8824.	1.6	14
93	Study of the effect of the aspect ratio of a cylindrical lithium-ion battery enclosure in an air-cooled thermal management system. <i>Journal of Energy Storage</i> , 2022, 45, 103684.	3.9	14
94	Simulation study of convective and hydrodynamic turbulent nanofluids by turbulence models. <i>International Journal of Thermal Sciences</i> , 2016, 110, 36-51.	2.6	13
95	Experimental investigations into viscosity, pH and electrical conductivity of nanofluid prepared from palm kernel fibre and a mixture of water and ethylene glycol. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	0.8	13
96	Exploration of nanofluid pool boiling and deposition on a horizontal cylinder in Eulerian and Lagrangian frames. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 959-971.	2.5	13
97	Nanofluid flow and shear layers between two parallel plates: a simulation approach. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 1536-1545.	1.5	13
98	Using of artificial neural networks (ANNs) to predict the rheological behavior of magnesium oxide-water nanofluid in a different volume fraction of nanoparticles, temperatures, and shear rates. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	13
99	Effects of in-line deflectors on the overall performance of a channel heat exchanger. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 512-529.	1.5	13
100	Effect of Straight, Inclined and Curved Fins on Natural Convection and Entropy Generation of a Nanofluid in a Square Cavity Influenced by a Magnetic Field. <i>Processes</i> , 2021, 9, 1339.	1.3	13
101	Investigation of the Thermal Conductivity, Viscosity, and Thermal Performance of Graphene Nanoplatelet-Alumina Hybrid Nanofluid in a Differentially Heated Cavity. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	13
102	HEAT TRANSFER ENHANCEMENT OF DILUTE AL <sub>2</sub> O <sub>3</sub> -MWCNT WATER BASED HYBRID NANOFLUIDS IN A SQUARE CAVITY. , 2018, , .		13
103	Effect of simultaneous use of water-alumina nanofluid and phase change nanomaterial in a lithium-ion battery with a specific geometry connected solar system. <i>Journal of Power Sources</i> , 2022, 539, 231570.	4.0	13
104	Numerical study of the placement and thickness of blocks equipped with phase change materials in a Trombe wall in a room- thermal performance prediction using ANN. <i>Engineering Analysis With Boundary Elements</i> , 2022, 141, 91-116.	2.0	13
105	Evaluation of energy efficiency, visualized energy, and production of environmental pollutants of a solar flat plate collector containing hybrid nanofluid. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102399.	1.7	13
106	Implementation of diffusion and electrostatic forces to produce a new slip velocity in the multiphase approach to nanofluids. <i>Powder Technology</i> , 2017, 307, 153-162.	2.1	12
107	Heat transfer through converging-diverging channels using Adomian decomposition method. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 1373-1384.	1.5	12
108	Experimental investigation of thermo-convection behaviour of aqueous binary nanofluids of MgO-ZnO in a square cavity. <i>Thermal Science and Engineering Progress</i> , 2022, 28, 101057.	1.3	12

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109	Numerical study of the effect of graphene nanoparticles in calcium chloride hexahydrate -based phase change material on melting and freezing time in a circular cavity with a triangular obstacle. <i>Journal of Energy Storage</i> , 2021, 43, 103243.	3.9	12
110	Outdoor Thermal Comfort Optimization through Vegetation Parameterization: Species and Tree Layout. <i>Sustainability</i> , 2021, 13, 11791.	1.6	12
111	Investigation of the Effect of Physical Factors on Exergy Efficiency of a Photovoltaic Thermal (PV/T) with Air Cooling. <i>International Journal of Photoenergy</i> , 2022, 2022, 1-6.	1.4	12
112	The effect of using non-Newtonian nanofluid on pressure drop and heat transfer in a capillary cooling system connected to a pouch lithium-ion battery connected to a solar system. <i>Journal of Power Sources</i> , 2022, 539, 231540.	4.0	12
113	Mathematical modeling of orifice downstream flow under flow-accelerated corrosion. <i>Nuclear Engineering and Design</i> , 2018, 326, 285-289.	0.8	11
114	Thermal-hydraulic efficiency management of spiral heat exchanger filled with Cu-ZnO/water hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1569-1582.	2.0	11
115	Influence of using innovative turbulators on the exergy and energy efficacy of flat plate solar collector with DWCNTs-TiO <sub>2</sub> /water nanofluid. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101855.	1.7	11
116	Research trends in nanofluid and its applications: a bibliometric analysis. <i>Journal of Nanoparticle Research</i> , 2022, 24, 1.	0.8	11
117	Influence of artificial roughness parametric variation on thermal performance of solar thermal collector: An experimental study, response surface analysis and ANN modelling. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102047.	1.7	11
118	An empirical study on the persuasive particle size effects over the multi-physical properties of monophasic MWCNT-Al <sub>2</sub> O <sub>3</sub> hybridized nanofluids. <i>Journal of Molecular Liquids</i> , 2022, 361, 119668.	2.3	11
119	Incorporating nano-scale material in solar system to reduce domestic hot water energy demand. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101735.	1.7	10
120	Investigation and Optimization of the Performance of Energy Systems in the Textile Industry by Using CHP Systems. <i>Sustainability</i> , 2022, 14, 1551.	1.6	10
121	Effects of interphase momentum exchange models on simulation of subcooled flow boiling. <i>International Communications in Heat and Mass Transfer</i> , 2020, 118, 104863.	2.9	9
122	Effect of the non-electrically conductive spindle on the viscosity measurements of nanofluids subjected to the magnetic field. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127252.	2.3	9
123	A Computational Fluid Dynamic Study on Efficiency of a Wavy Microchannel/Heat Sink Containing Various Nanoparticles. <i>Micromachines</i> , 2021, 12, 1192.	1.4	9
124	Impact of phase change material on the amount of emission in the double-glazed window frame for different window angles. <i>Journal of Energy Storage</i> , 2021, 44, 103320.	3.9	9
125	Application of hybrid nanofluid and a twisted turbulator in a parabolic solar trough collector: Energy and exergy models. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101708.	1.7	9
126	Investigation of mixed convection of non-Newtonian fluid in the cooling process of lithium-ion battery with different outlet position. <i>Journal of Energy Storage</i> , 2021, 46, 103621.	3.9	9



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127	Parametric Analysis of Effective Thermal Conductivity Models for Nanofluids. , 2012, , .		8
128	Experimental and Numerical Investigation on a Water-Filled Cavity Natural Convection to Find the Proper Thermal Boundary Conditions for Simulations. Heat Transfer Engineering, 2018, 39, 359-373.	1.2	8
129	Fault diagnosis of a nonlinear hybrid system using adaptive unscented Kalman filter bank. Engineering With Computers, 2022, 38, 2717-2728.	3.5	8
130	Simulation of a parabolic trough solar collector containing hybrid nanofluid and equipped with compound turbulator to evaluate exergy efficacy and thermalâ€hydraulic performance. Energy Science and Engineering, 2022, 10, 4304-4317.	1.9	8
131	Applying Artificial Neural Network and Response Surface Method to Forecast the Rheological Behavior of Hybrid Nano-Antifreeze Containing Graphene Oxide and Copper Oxide Nanomaterials. Sustainability, 2021, 13, 11505.	1.6	8
132	An appraisal of air quality, thermal comfort, acoustic, and health risk of household kitchens in a developing country. Environmental Science and Pollution Research, 2022, 29, 26202-26213.	2.7	8
133	Using nanoparticles in solar collector to enhance solar-assisted hot process stream usefulness. Sustainable Energy Technologies and Assessments, 2022, 52, 101992.	1.7	8
134	Investigation into the use of phase change materials in thermal management of a solar panel in the vicinity of tubes with slotted rectangular fins. Applied Thermal Engineering, 2022, 215, 118905.	3.0	8
135	Heat transfer and fluid flow analysis using nanofluids in diamond-shaped cavities with novel obstacles. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1034-1056.	1.5	7
136	Efficiency Enhancement in Double-Pass Perforated Glazed Solar Air Heaters with Porous Beds: Taguchi-Artificial Neural Network Optimization and Costâ€Benefit Analysis. Sustainability, 2021, 13, 11654.	1.6	7
137	Improvement of the energy and exergy efficiencies of the parabolic solar collector equipped with a twisted turbulator using SWCNT-Cu/water two-phase hybrid nanofluid. Sustainable Energy Technologies and Assessments, 2022, 49, 101705.	1.7	7
138	The effect of using tubes filled with phase change materials in the air conditioning system of a residential building. Journal of Building Engineering, 2022, 49, 104079.	1.6	7
139	Improving the thermal-hydraulic performance of parabolic solar collectors using absorber tubes equipped with perforated twisted tape containing nanofluid. Sustainable Energy Technologies and Assessments, 2022, 52, 102099.	1.7	7
140	Numerical investigation of heat transfer in helical tubes modified with aluminum oxide nanofluid and modeling of data obtained by artificial neural network. Numerical Heat Transfer; Part A: Applications, 2023, 83, 265-284.	1.2	7
141	Augmentation of heat transfer in a microtube and a wavy microchannel using hybrid nanofluid: A numerical investigation. Mathematical Methods in the Applied Sciences, 2020, , .	1.2	6
142	Convection Heat Transfer, Entropy Generation Analysis and Thermodynamic Optimization of Nanofluid Flow in Spiral Coil Tube. Heat Transfer Engineering, 2021, 42, 1573-1589.	1.2	6
143	Assessment of CO2 emissions associated with HVAC system in buildings equipped with phase change materials. Journal of Building Engineering, 2022, 51, 104236.	1.6	6
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