

Mohammad Reza Safaei

List of Publications by Year in descending order

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papers

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14614

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#	ARTICLE	IF	CITATIONS
1	Thermal conductivity of Cu/TiO ₂ -water/EG hybrid nanofluid: Experimental data and modeling using artificial neural network and correlation. <i>International Communications in Heat and Mass Transfer</i> , 2015, 66, 100-104.	2.9	336
2	Viscosity of nanofluids: A review of recent experimental studies. <i>International Communications in Heat and Mass Transfer</i> , 2016, 73, 114-123.	2.9	274
3	Investigation of nanofluid mixed convection in a shallow cavity using a two-phase mixture model. <i>International Journal of Thermal Sciences</i> , 2014, 75, 204-220.	2.6	263
4	Mixed convection of copper-water nanofluid in a shallow inclined lid driven cavity using the lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 402, 150-168.	1.2	263
5	Simulation of copper-water nanofluid in a microchannel in slip flow regime using the lattice Boltzmann method. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 49, 89-99.	1.2	231
6	Basic effects of pulp refining on fiber properties—A review. <i>Carbohydrate Polymers</i> , 2015, 115, 785-803.	5.1	225
7	Investigation of Heat Transfer Enhancement in a Forward-Facing Contracting Channel Using FMWCNT Nanofluids. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 1321-1340.	1.2	220
8	Investigation of rib's height effect on heat transfer and flow parameters of laminar water-Al ₂ O ₃ nanofluid in a rib-microchannel. <i>Applied Mathematics and Computation</i> , 2016, 290, 135-153.	1.4	217
9	Heat transfer improvement of water/single-wall carbon nanotubes (SWCNT) nanofluid in a novel design of a truncated double-layered microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 780-795.	2.5	212
10	Investigation of heat transfer and pressure drop of a counter flow corrugated plate heat exchanger using MWCNT based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2015, 66, 172-179.	2.9	197
11	Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al ₂ O ₃ nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 728-734.	2.5	191
12	Application of Nanofluids in Thermal Performance Enhancement of Parabolic Trough Solar Collector: State-of-the-Art. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 463.	1.3	189
13	Particle size and type effects on heat transfer enhancement of Ferro-nanofluids in a pulsating heat pipe. <i>Powder Technology</i> , 2016, 301, 1218-1226.	2.1	188
14	Effects on thermophysical properties of carbon based nanofluids: Experimental data, modelling using regression, ANFIS and ANN. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 920-932.	2.5	178
15	Analysis of heat transfer and nanofluid fluid flow in microchannels with trapezoidal, rectangular and triangular shaped ribs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 91, 15-31.	1.3	176
16	A modified two-phase mixture model of nanofluid flow and heat transfer in a 3-D curved microtube. <i>Advanced Powder Technology</i> , 2016, 27, 2175-2185.	2.0	169
17	Influence of T-semi attached rib on turbulent flow and heat transfer parameters of a silver-water nanofluid with different volume fractions in a three-dimensional trapezoidal microchannel. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 88, 60-76.	1.3	167
18	Experimental study on the effect of inclination angle on heat transfer enhancement of a ferrofluid in a closed loop oscillating heat pipe under magnetic field. <i>Experimental Thermal and Fluid Science</i> , 2016, 74, 265-270.	1.5	166

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19	Prediction of dynamic viscosity of a hybrid nano-lubricant by an optimal artificial neural network. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 209-214.	2.9	163
20	Solar Still Efficiency Enhancement by Using Graphene Oxide/Paraffin Nano-PCM. <i>Energies</i> , 2019, 12, 2002.	1.6	163
21	The investigation of thermal radiation and free convection heat transfer mechanisms of nanofluid inside a shallow cavity by lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 515-535.	1.2	156
22	Numerical study on mixed convection of a non-Newtonian nanofluid with porous media in a two lid-driven square cavity. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1121-1145.	2.0	153
23	Flow and heat transfer in non-Newtonian nanofluids over porous surfaces. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1655-1666.	2.0	150
24	Recent advances in using nanofluids in renewable energy systems and the environmental implications of their uptake. <i>Nano Energy</i> , 2021, 86, 106069.	8.2	149
25	MHD mixed convection in a vertical annulus filled with Al ₂ O ₃ -water nanofluid considering nanoparticle migration. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 382, 296-306.	1.0	147
26	Forced convective heat transfer of water/functionalized multi-walled carbon nanotube nanofluids in a microchannel with oscillating heat flux and slip boundary condition. <i>International Communications in Heat and Mass Transfer</i> , 2015, 68, 69-77.	2.9	145
27	New temperature, interfacial shell dependent dimensionless model for thermal conductivity of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 207-210.	2.5	145
28	Evaluating the effect of temperature and concentration on the thermal conductivity of ZnO-TiO ₂ /EG hybrid nanofluid using artificial neural network and curve fitting on experimental data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 519, 209-216.	1.2	143
29	Effect of Sr@ZnO nanoparticles and <i>Ricinus communis</i> biodiesel-diesel fuel blends on modified CRDI diesel engine characteristics. <i>Energy</i> , 2021, 215, 119094.	4.5	141
30	Application of nanofluid to improve the thermal performance of horizontal spiral coil utilized in solar ponds: Geometric study. <i>Renewable Energy</i> , 2018, 122, 1-16.	4.3	139
31	Natural convection heat transfer enhancement in new designs of plate-fin based heat sinks. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 640-647.	2.5	139
32	Synthesized CuFe ₂ O ₄ /SiO ₂ nanocomposites added to water/EG: Evaluation of the thermophysical properties beside sensitivity analysis & EANN. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 1169-1179.	2.5	135
33	Configuration and Optimization of a Minichannel Using Water-Alumina Nanofluid by Non-Dominated Sorting Genetic Algorithm and Response Surface Method. <i>Nanomaterials</i> , 2020, 10, 901.	1.9	132
34	Heat transfer and fluid flow of pseudo-plastic nanofluid over a moving permeable plate with viscous dissipation and heat absorption/generation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1643-1654.	2.0	129
35	Diurnal thermal evaluation of an evacuated tube solar collector (ETSC) charged with graphene nanoplatelets-methanol nano-suspension. <i>Renewable Energy</i> , 2019, 142, 364-372.	4.3	128
36	A comprehensive literature review of bio-fuel performance in internal combustion engine and relevant costs involvement. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 30, 29-44.	8.2	126

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37	Experimental Investigation on Thermal Performance of a PV/T-PCM (Photovoltaic/Thermal) System Cooling with a PCM and Nanofluid. <i>Energies</i> , 2019, 12, 2572.	1.6	126
38	The effect of attack angle of triangular ribs on heat transfer of nanofluids in a microchannel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 2893-2912.	2.0	125
39	A novel nonlinear regression model of SVR as a substitute for ANN to predict conductivity of MWCNT-CuO/water hybrid nanofluid based on empirical data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 89-97.	1.2	124
40	Electro- and thermophysical properties of water-based nanofluids containing copper ferrite nanoparticles coated with silica: Experimental data, modeling through enhanced ANN and curve fitting. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 925-935.	2.5	119
41	Energy harvesting from fluid flow using piezoelectrics: A critical review. <i>Renewable Energy</i> , 2019, 143, 1826-1838.	4.3	115
42	Assessment of thermal conductivity enhancement of nano-antifreeze containing single-walled carbon nanotubes: Optimal artificial neural network and curve-fitting. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 138-145.	1.2	113
43	Numerical simulation of laminar to turbulent nanofluid flow and heat transfer over a backward-facing step. <i>Applied Mathematics and Computation</i> , 2014, 239, 153-170.	1.4	112
44	Smart optimization of a thermosyphon heat pipe for an evacuated tube solar collector using response surface methodology (RSM). <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 534, 1221-1246.	1.2	112
45	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG-water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2015, 65, 47-51.	2.9	111
46	A smoothed particle hydrodynamics approach for numerical simulation of nano-fluid flows. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1733-1741.	2.0	111
47	Effect of Nano-Graphene Oxide and n-Butanol Fuel Additives Blended with Diesel Nigella sativa Biodiesel Fuel Emulsion on Diesel Engine Characteristics. <i>Symmetry</i> , 2020, 12, 961.	1.1	109
48	Effect of employing a new biological nanofluid containing functionalized graphene nanoplatelets on thermal and hydraulic characteristics of a spiral heat exchanger. <i>Energy Conversion and Management</i> , 2019, 180, 72-82.	4.4	108
49	Clean combustion and emissions strategy using reactivity controlled compression ignition (RCCI) mode engine powered with CNG-Karanja biodiesel. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 124, 116-131.	2.7	102
50	A survey on experimental and numerical studies of convection heat transfer of nanofluids inside closed conduits. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401667356.	0.8	101
51	Comparative study of the performance of air and geothermal sources of heat pumps cycle operating with various refrigerants and vapor injection. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 4037-4047.	3.4	100
52	Investigation of Micro- and Nanosized Particle Erosion in a 90° Pipe Bend Using a Two-Phase Discrete Phase Model. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	0.8	99
53	Thermal Assessment of Nano-Particulate Graphene-Water/Ethylene Glycol (WEG 60:40) Nano-Suspension in a Compact Heat Exchanger. <i>Energies</i> , 2019, 12, 1929.	1.6	99
54	Heat transfer and nanofluid flow over a porous plate with radiation and slip boundary conditions. <i>Journal of Central South University</i> , 2019, 26, 1099-1115.	1.2	93

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55	Effect of Magnetic Field on Free Convection in Inclined Cylindrical Annulus Containing Molten Potassium. <i>International Journal of Applied Mechanics</i> , 2015, 07, 1550052.	1.3	90
56	Comparison of experimental data, modelling and non-linear regression on transport properties of mineral oil based nanofluids. <i>Powder Technology</i> , 2017, 317, 458-470.	2.1	89
57	Efficiency assessment of using graphene nanoplatelets-silver/water nanofluids in microchannel heat sinks with different cross-sections for electronics cooling. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 347-372.	1.6	87
58	Numerical Study of Entropy Generation due to Coupled Laminar and Turbulent Mixed Convection and Thermal Radiation in an Enclosure Filled with a Semitransparent Medium. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	0.8	86
59	Assessment and optimization of an integrated energy system with electrolysis and fuel cells for electricity, cooling and hydrogen production using various optimization techniques. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21379-21396.	3.8	86
60	Effect of Zinc Oxide Nano-Additives and Soybean Biodiesel at Varying Loads and Compression Ratios on VCR Diesel Engine Characteristics. <i>Symmetry</i> , 2020, 12, 1042.	1.1	79
61	Entropy generation of graphene-platinum hybrid nanofluid flow through a wavy cylindrical microchannel solar receiver by using neural networks. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1949-1967.	2.0	79
62	Effect of injection parameters and producer gas derived from redgram stalk on the performance and emission characteristics of a diesel engine. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3133-3142.	3.4	78
63	Operation analysis, response and performance evaluation of a pulsating heat pipe for low temperature heat recovery. <i>Energy Conversion and Management</i> , 2020, 222, 113230.	4.4	76
64	Boiling heat transfer characteristics of graphene oxide nanoplatelets nano-suspensions of water-perfluorohexane (C6F14) and water-n-pentane. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 4511-4521.	3.4	76
65	Heat Transfer and Pressure Drop in Fully Developed Turbulent Flows of Graphene Nanoplatelets-Silver/Water Nanofluids. <i>Fluids</i> , 2016, 1, 20.	0.8	73
66	Numerical Simulation of Natural Convection Heat Transfer of Nanofluid With Cu, MWCNT, and Al ₂ O ₃ Nanoparticles in a Cavity With Different Aspect Ratios. <i>Journal of Thermal Science and Engineering Applications</i> , 2019, 11, .	0.8	73
67	Comparison of the Finite Volume and Lattice Boltzmann Methods for Solving Natural Convection Heat Transfer Problems inside Cavities and Enclosures. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-15.	0.3	72
68	Numerical performance of thermal conductivity in Bioconvection flow of cross nanofluid containing swimming microorganisms over a cylinder with melting phenomenon. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101181.	2.8	72
69	Thermal performance of nanofluid in ducts with double forward-facing steps. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 47, 28-42.	2.7	71
70	LBM simulation of free convection in a nanofluid filled incinerator containing a hot block. <i>International Journal of Mechanical Sciences</i> , 2018, 144, 172-185.	3.6	69
71	Numerical Study of Entropy Generation in a Flowing Nanofluid Used in Micro- and Minichannels. <i>Entropy</i> , 2013, 15, 144-155.	1.1	67
72	Potential of Solar Collectors for Clean Thermal Energy Production in Smart Cities using Nanofluids: Experimental Assessment and Efficiency Improvement. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1877.	1.3	66

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73	Investigation of pollutant reduction by simulation of turbulent non-premixed pulverized coal combustion. <i>Applied Thermal Engineering</i> , 2014, 73, 1222-1235.	3.0	65
74	Thermal Evaluation of Graphene Nanoplatelets Nanofluid in a Fast-Responding HP with the Potential Use in Solar Systems in Smart Cities. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2101.	1.3	63
75	Heat transfer analysis of Ga-In-Sn in a compact heat exchanger equipped with straight micro-passages. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 675-684.	2.5	62
76	Entropy Generation during Turbulent Flow of Zirconia-water and Other Nanofluids in a Square Cross Section Tube with a Constant Heat Flux. <i>Entropy</i> , 2014, 16, 6116-6132.	1.1	61
77	Experimental investigation on compression ignition engine powered with pentanol and thevetia peruviana methyl ester under reactivity controlled compression ignition mode of operation. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100921.	2.8	61
78	Performance Evaluation of Nanofluids in an Inclined Ribbed Microchannel for Electronic Cooling Applications. , 0, , .		58
79	Effect of absorber plate surface shape and glass cover inclination angle on the performance of a passive solar still. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 3183-3198.	1.6	58
80	Nanofluids as secondary fluid in the refrigeration system: Experimental data, regression, ANFIS, and NN modeling. <i>International Journal of Heat and Mass Transfer</i> , 2019, 144, 118635.	2.5	57
81	Heat transfer of water-based carbon nanotube nanofluids in the shell and tube cooling heat exchangers of the gasoline product of the residue fluid catalytic cracking unit. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 351-362.	2.0	56
82	Experimental study to obtain the viscosity of CuO-loaded nanofluid: effects of nanoparticles' mass fraction, temperature and basefluid's types to develop a correlation. <i>Meccanica</i> , 2018, 53, 3739-3757.	1.2	55
83	Combination Effect of Baffle Arrangement and Hybrid Nanofluid on Thermal Performance of a Shell and Tube Heat Exchanger Using 3-D Homogeneous Mixture Model. <i>Mathematics</i> , 2021, 9, 881.	1.1	55
84	Numerical Investigation of Heat Transfer Enhancement in a Rectangular Heated Pipe for Turbulent Nanofluid. <i>Scientific World Journal, The</i> , 2014, 2014, 1-9.	0.8	51
85	Heat transfer and fluid flow over microscale backward and forward facing step: A review. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 237-244.	2.9	51
86	Investigation on the effect of cottonseed oil blended with different percentages of octanol and suspended MWCNT nanoparticles on diesel engine characteristics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 525-542.	2.0	51
87	Boiling flow of graphene nanoplatelets nano-suspension on a small copper disk. <i>Powder Technology</i> , 2021, 377, 10-19.	2.1	51
88	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
89	Boundary Layer Flow and Heat Transfer of FMWCNT/Water Nanofluids over a Flat Plate. <i>Fluids</i> , 2016, 1, 31.	0.8	50
90	Mixed convection nanofluid flow over microscale forward-facing step " Effect of inclination and step heights. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 145-154.	2.9	50

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91	Reforming of methanol with steam in a micro-reactor with Cu@SiO ₂ porous catalyst. International Journal of Hydrogen Energy, 2019, 44, 19628-19639.	3.8	49
92	Numerical investigation of serrated fins on natural convection from concentric and eccentric annuli with different cross sections. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1429-1442.	2.0	48
93	Empirical correlations development for heat transfer and friction factor of a solar rectangular air passage with spherical-shaped turbulence promoters. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1195-1212.	2.0	48
94	Utilization of biodiesel/Al ₂ O ₃ nanoparticles for combustion behavior enhancement of a diesel engine operated on dual fuel mode. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5897-5911.	2.0	48
95	A theoretical model to predict gas permeability for slip flow through a porous medium. Applied Thermal Engineering, 2014, 70, 71-76.	3.0	47
96	Simulation of water/FMWCNT nanofluid forced convection in a microchannel filled with porous material under slip velocity and temperature jump boundary conditions. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 2329-2349.	1.6	47
97	Experimental Analysis of Engine Performance and Exhaust Pollutant on a Single-Cylinder Diesel Engine Operated Using Moringa Oleifera Biodiesel. Applied Sciences (Switzerland), 2021, 11, 7071.	1.3	47
98	Heat Transfer of Oil/MWCNT Nanofluid Jet Injection Inside a Rectangular Microchannel. Symmetry, 2019, 11, 757.	1.1	46
99	Thermal and mechanical design of tangential hybrid microchannel and high-conductivity inserts for cooling of disk-shaped electronic components. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2125-2133.	2.0	43
100	Effects of cobalt ferrite coated with silica nanocomposite on the thermal conductivity of an antifreeze: New nanofluid for refrigeration condensers. International Journal of Refrigeration, 2019, 102, 86-95.	1.8	42
101	Oily Wastewater Treatment Using Polyamide Thin Film Composite Membrane Technology. Membranes, 2020, 10, 84.	1.4	42
102	Two-phase frictional pressure drop with pure refrigerants in vertical mini/micro-channels. Case Studies in Thermal Engineering, 2021, 23, 100824.	2.8	42
103	Effect of various factors and diverse approaches to enhance the performance of solar stills: a comprehensive review. Journal of Thermal Analysis and Calorimetry, 2022, 147, 4491-4522.	2.0	42
104	Thermal analysis of a binary base fluid in pool boiling system of glycol-water alumina nano-suspension. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2453-2462.	2.0	40
105	Estimate the shear rate & apparent viscosity of multi-phased non-Newtonian hybrid nanofluids via new developed Support Vector Machine method coupled with sensitivity analysis. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122456.	1.2	39
106	Performance enhancement of concentrator photovoltaic systems using nanofluids. International Journal of Energy Research, 2021, 45, 2959-2979.	2.2	39
107	A detailed hydrothermal investigation of a helical micro double-tube heat exchanger for a wide range of helix pitch length. Case Studies in Thermal Engineering, 2021, 28, 101413.	2.8	39
108	Experimental investigation and performance optimisation of a catalytic reforming micro-reactor using response surface methodology. Energy Conversion and Management, 2019, 199, 111983.	4.4	38

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109	Bio-based material from fruit waste of orange peel for industrial applications. <i>Journal of Materials Research and Technology</i> , 2022, 17, 3186-3197.	2.6	38
110	Numerical modeling of turbulence mixed convection heat transfer in air filled enclosures by finite volume method. <i>International Journal of Multiphysics</i> , 2011, 5, 307-324.	0.3	37
111	Thermal analysis and thermo-hydraulic characteristics of zirconia-water nanofluid under a convective boiling regime. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2413-2422.	2.0	37
112	Modeling and analysis of biomagnetic blood Carreau fluid flow through a stenosis artery with magnetic heat transfer: A transient study. <i>PLoS ONE</i> , 2018, 13, e0192138.	1.1	35
113	Optimization of Nano-Additive Characteristics to Improve the Efficiency of a Shell and Tube Thermal Energy Storage System Using a Hybrid Procedure: DOE, ANN, MCDM, MOO, and CFD Modeling. <i>Mathematics</i> , 2021, 9, 3235.	1.1	35
114	Performance Enhancement of Internal Combustion Engines through Vibration Control: State of the Art and Challenges. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 406.	1.3	34
115	Effects of various types of nanomaterials on PCM melting process in a thermal energy storage system for solar cooling application using CFD and MCMC methods. <i>International Journal of Heat and Mass Transfer</i> , 2022, 195, 123204.	2.5	33
116	Eulerian-Lagrangian analysis of solid particle distribution in an internally heated and cooled air-filled cavity. <i>Applied Mathematics and Computation</i> , 2015, 250, 28-46.	1.4	32
117	Mathematical Modeling for Nanofluids Simulation: A Review of the Latest Works. , 0, , .		32
118	Lattice Boltzmann method to simulate convection heat transfer in a microchannel under heat flux. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 3371-3398.	1.6	32
119	Performance evaluation of a solar still using hybrid nanofluid glass cooling-CFD simulation and environmental analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101728.	1.7	32
120	Heat Transfer Improvement in a Double Backward-Facing Expanding Channel Using Different Working Fluids. <i>Symmetry</i> , 2020, 12, 1088.	1.1	31
121	Non-Isothermal Hydrodynamic Characteristics of a Nanofluid in a Fin-Attached Rotating Tube Bundle. <i>Mathematics</i> , 2021, 9, 1153.	1.1	31
122	A Comprehensive Review of Milk Fouling on Heated Surfaces. <i>Critical Reviews in Food Science and Nutrition</i> , 2015, 55, 1724-1743.	5.4	29
123	Bed roughness effects on characteristics of turbulent confined wall jets. Measurement: <i>Journal of the International Measurement Confederation</i> , 2018, 122, 325-338.	2.5	29
124	Thermo-hydraulic performance of a biological nanofluid containing graphene nanoplatelets within a tube enhanced with rotating twisted tape. <i>Powder Technology</i> , 2019, 355, 278-288.	2.1	28
125	Exergo-Economic Optimization of Organic Rankine Cycle for Saving of Thermal Energy in a Sample Power Plant by Using of Strength Pareto Evolutionary Algorithm II. <i>Processes</i> , 2020, 8, 264.	1.3	28
126	Cooling Enhancement and Stress Reduction Optimization of Disk-Shaped Electronic Components Using Nanofluids. <i>Symmetry</i> , 2020, 12, 931.	1.1	28

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127	The Effect of Inclination Angle and Reynolds Number on the Performance of a Direct Contact Membrane Distillation (DCMD) Process. <i>Energies</i> , 2020, 13, 2824.	1.6	27
128	Multi-Objective Optimization of a Pitch Point Absorber Wave Energy Converter. <i>Water (Switzerland)</i> , 2019, 11, 969.	1.2	26
129	High Quality Syngas Production with Supercritical Biomass Gasification Integrated with a Water-Gas Shift Reactor. <i>Energies</i> , 2019, 12, 2591.	1.6	24
130	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
131	A Hybrid Finite-Element/Finite-Difference Scheme for Solving the 3-D Energy Equation in Transient Nonisothermal Fluid Flow over a Staggered Tube Bank. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2015, 68, 169-183.	0.6	23
132	Thermal and energy management prospects of $\text{TiO}_2\text{-AlOOH}$ hybrid nanofluids for the application of sustainable heat exchanger systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 6941-6957.	2.0	23
133	Entropy Generation in Thermal Radiative Loading of Structures with Distinct Heaters. <i>Entropy</i> , 2017, 19, 506.	1.1	22
134	Mixed convection heat transfer of a nanofluid in a closed elbow-shaped cavity (CESC). <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 2295-2316.	2.0	22
135	Convective Bubbly Flow of Water in an Annular Pipe: Role of Total Dissolved Solids on Heat Transfer Characteristics and Bubble Formation. <i>Water (Switzerland)</i> , 2019, 11, 1566.	1.2	21
136	Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds. <i>Energies</i> , 2022, 15, 2727.	1.6	21
137	Experimental investigation on rheological, momentum and heat transfer characteristics of flowing fiber crop suspensions. <i>International Communications in Heat and Mass Transfer</i> , 2017, 80, 60-69.	2.9	20
138	A comprehensive presentation on nanoparticles electrical conductivity of nanofluids: Statistical study concerned effects of temperature, nanoparticles type and solid volume concentration. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 542, 123432.	1.2	20
139	Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids. <i>Chemical Engineering and Technology</i> , 2022, 45, 15-25.	0.9	20
140	Performance evaluation of various nanofluids for parabolic trough collectors. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 50, 101865.	1.7	20
141	Effect of manifold injection of hydrogen gas in producer gas and neem biodiesel fueled CRDI dual fuel engine. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 25913-25928.	3.8	20
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