Mohammad Reza Safaei

List of Publications by Citations

171 papers	9,481 citations	59 h-index	92 g-index
175 ext. papers	11,467 ext. citations	4.2 avg, IF	7.14 L-index

#	Paper	IF	Citations
171	Thermal conductivity of Cu/TiO2/water/EG hybrid nanofluid: Experimental data and modeling using artificial neural network and correlation. *International Communications in Heat and Mass Transfer*, **2015**, 66, 100-104	5.8	280
170	Investigation of nanofluid mixed convection in a shallow cavity using a two-phase mixture model. *International Journal of Thermal Sciences*, **2014**, 75, 204-220	4.1	243
169	Mixed convection of copper/water nanofluid in a shallow inclined lid driven cavity using the lattice Boltzmann method. *Physica A: Statistical Mechanics and Its Applications*, **2014**, 402, 150-168	3.3	235
168	Viscosity of nanofluids: A review of recent experimental studies. *International Communications in Heat and Mass Transfer*, **2016**, 73, 114-123	5.8	216
167	Simulation of copper/water nanofluid in a microchannel in slip flow regime using the lattice Boltzmann method. *European Journal of Mechanics, B/Fluids*, **2015**, 49, 89-99	2.4	209
166	Investigation of Heat Transfer Enhancement in a Forward-Facing Contracting Channel Using FMWCNT Nanofluids. *Numerical Heat Transfer; Part A: Applications*, **2014**, 66, 1321-1340	2.3	197
165	Investigation of rib's height effect on heat transfer and flow parameters of laminar water/Al 2 O 3 nanofluid in a rib-microchannel. *Applied Mathematics and Computation*, **2016**, 290, 135-153	2.7	195
164	Heat transfer improvement of water/single-wall carbon nanotubes (SWCNT) nanofluid in a novel design of a truncated double-layered microchannel heat sink. *International Journal of Heat and Mass Transfer*, **2017**, 113, 780-795	4.9	180
163	Investigation of heat transfer and pressure drop of a counter flow corrugated plate heat exchanger using MWCNT based nanofluids. *International Communications in Heat and Mass Transfer*, **2015**, 66, 172-179	5.8	163
162	Basic effects of pulp refining on fiber properties--a review. *Carbohydrate Polymers*, **2015**, 115, 785-803	10.3	160
161	Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al2O3 nanoparticles. *International Journal of Heat and Mass Transfer*, **2015**, 88, 728-734	4.9	155
160	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. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 88, 60-76	3	154
159	Particle size and type effects on heat transfer enhancement of Ferro-nanofluids in a pulsating heat pipe. *Powder Technology*, **2016**, 301, 1218-1226	5.2	151
158	A modified two-phase mixture model of nanofluid flow and heat transfer in a 3-D curved microtube. *Advanced Powder Technology*, **2016**, 27, 2175-2185	4.6	147
157	Analysis of heat transfer and nanofluid fluid flow in microchannels with trapezoidal, rectangular and triangular shaped ribs. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 91, 15-31	3	146
156	Prediction of dynamic viscosity of a hybrid nano-lubricant by an optimal artificial neural network. *International Communications in Heat and Mass Transfer*, **2016**, 76, 209-214	5.8	137
155	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. *Experimental Thermal and Fluid Science*, **2016**, 74, 265-270	3	136

154	Application of Nanofluids in Thermal Performance Enhancement of Parabolic Trough Solar Collector: State-of-the-Art. *Applied Sciences (Switzerland)*, **2019**, 9, 463	2.6	134
153	The investigation of thermal radiation and free convection heat transfer mechanisms of nanofluid inside a shallow cavity by lattice Boltzmann method. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 509, 515-535	3.3	133
152	MHD mixed convection in a vertical annulus filled with Al2O3–water nanofluid considering nanoparticle migration. *Journal of Magnetism and Magnetic Materials*, **2015**, 382, 296-306	2.8	133
151	New temperature, interfacial shell dependent dimensionless model for thermal conductivity of nanofluids. *International Journal of Heat and Mass Transfer*, **2017**, 114, 207-210	4.9	131
150	Effects on thermophysical properties of carbon based nanofluids: Experimental data, modelling using regression, ANFIS and ANN. *International Journal of Heat and Mass Transfer*, **2018**, 125, 920-932	4.9	128
149	Forced convective heat transfer of water/functionalized multi-walled carbon nanotube nanofluids in a microchannel with oscillating heat flux and slip boundary condition. *International Communications in Heat and Mass Transfer*, **2015**, 68, 69-77	5.8	125
148	Synthesized CuFe2O4/SiO2 nanocomposites added to water/EG: Evaluation of the thermophysical properties beside sensitivity analysis & EANN. *International Journal of Heat and Mass Transfer*, **2018**, 127, 1169-1179	4.9	117
147	Numerical study on mixed convection of a non-Newtonian nanofluid with porous media in a two lid-driven square cavity. *Journal of Thermal Analysis and Calorimetry*, **2020**, 140, 1121-1145	4.1	115
146	Diurnal thermal evaluation of an evacuated tube solar collector (ETSC) charged with graphene nanoplatelets-methanol nano-suspension. *Renewable Energy*, **2019**, 142, 364-372	8.1	110
145	Evaluating the effect of temperature and concentration on the thermal conductivity of ZnO-TiO2/EG hybrid nanofluid using artificial neural network and curve fitting on experimental data. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 519, 209-216	3.3	109
144	Flow and heat transfer in non-Newtonian nanofluids over porous surfaces. *Journal of Thermal Analysis and Calorimetry*, **2019**, 135, 1655-1666	4.1	107
143	A comprehensive literature review of bio-fuel performance in internal combustion engine and relevant costs involvement. *Renewable and Sustainable Energy Reviews*, **2014**, 30, 29-44	16.2	106
142	The effect of attack angle of triangular ribs on heat transfer of nanofluids in a microchannel. *Journal of Thermal Analysis and Calorimetry*, **2018**, 131, 2893-2912	4.1	104
141	Application of nanofluid to improve the thermal performance of horizontal spiral coil utilized in solar ponds: Geometric study. *Renewable Energy*, **2018**, 122, 1-16	8.1	103
140	Electro- and thermophysical properties of water-based nanofluids containing copper ferrite nanoparticles coated with silica: Experimental data, modeling through enhanced ANN and curve fitting. *International Journal of Heat and Mass Transfer*, **2018**, 127, 925-935	4.9	98
139	Solar Still Efficiency Enhancement by Using Graphene Oxide/Paraffin Nano-PCM. *Energies*, **2019**, 12, 2002	3.1	97
138	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG–water nanofluid. *International Communications in Heat and Mass Transfer*, **2015**, 65, 47-51	5.8	96
137	Assessment of thermal conductivity enhancement of nano-antifreeze containing single-walled carbon nanotubes: Optimal artificial neural network and curve-fitting. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 521, 138-145	3.3	95

136	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. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 521, 89-97	3.3	95
135	Numerical simulation of laminar to turbulent nanofluid flow and heat transfer over a backward-facing step. *Applied Mathematics and Computation*, **2014**, 239, 153-170	2.7	94
134	A survey on experimental and numerical studies of convection heat transfer of nanofluids inside closed conduits. *Advances in Mechanical Engineering*, **2016**, 8, 168781401667356	1.2	94
133	A smoothed particle hydrodynamics approach for numerical simulation of nano-fluid flows. *Journal of Thermal Analysis and Calorimetry*, **2019**, 135, 1733-1741	4.1	92
132	Experimental Investigation on Thermal Performance of a PV/T-PCM (Photovoltaic/Thermal) System Cooling with a PCM and Nanofluid. *Energies*, **2019**, 12, 2572	3.1	91
131	Investigation of micro- and nanosized particle erosion in a 90° pipe bend using a two-phase discrete phase model. *Scientific World Journal, The*, **2014**, 2014, 740578	2.2	88
130	Thermal Assessment of Nano-Particulate Graphene-Water/Ethylene Glycol (WEG 60:40) Nano-Suspension in a Compact Heat Exchanger. *Energies*, **2019**, 12, 1929	3.1	87
129	Heat transfer and fluid flow of pseudo-plastic nanofluid over a moving permeable plate with viscous dissipation and heat absorption/generation. *Journal of Thermal Analysis and Calorimetry*, **2019**, 135, 1643-1654	4.1	85
128	Natural convection heat transfer enhancement in new designs of plate-fin based heat sinks. *International Journal of Heat and Mass Transfer*, **2018**, 125, 640-647	4.9	82
127	Effect of Magnetic Field on Free Convection in Inclined Cylindrical Annulus Containing Molten Potassium. *International Journal of Applied Mechanics*, **2015**, 07, 1550052	2.4	81
126	Smart optimization of a thermosyphon heat pipe for an evacuated tube solar collector using response surface methodology (RSM). *Physica A: Statistical Mechanics and Its Applications*, **2019**, 534, 122146	3.3	81
125	Effect of employing a new biological nanofluid containing functionalized graphene nanoplatelets on thermal and hydraulic characteristics of a spiral heat exchanger. *Energy Conversion and Management*, **2019**, 180, 72-82	10.6	78
124	Configuration and Optimization of a Minichannel Using Water-Alumina Nanofluid by Non-Dominated Sorting Genetic Algorithm and Response Surface Method. *Nanomaterials*, **2020**, 10,	5.4	74
123	Comparison of experimental data, modelling and non-linear regression on transport properties of mineral oil based nanofluids. *Powder Technology*, **2017**, 317, 458-470	5.2	72
122	Effect of Nano-Graphene Oxide and n-Butanol Fuel Additives Blended with Diesel–Nigella sativa Biodiesel Fuel Emulsion on Diesel Engine Characteristics. *Symmetry*, **2020**, 12, 961	2.7	72
121	Numerical study of entropy generation due to coupled laminar and turbulent mixed convection and thermal radiation in an enclosure filled with a semitransparent medium. *Scientific World Journal, The*, **2014**, 2014, 761745	2.2	71
120	Heat Transfer and Pressure Drop in Fully Developed Turbulent Flows of Graphene Nanoplatelets–Silver/Water Nanofluids. *Fluids*, **2016**, 1, 20	1.6	69
119	Effect of Sr@ZnO nanoparticles and Ricinus communis biodiesel-diesel fuel blends on modified CRDI diesel engine characteristics. *Energy*, **2021**, 215, 119094	7.9	69

118	Efficiency assessment of using graphene nanoplatelets-silver/water nanofluids in microchannel heat sinks with different cross-sections for electronics cooling. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 347-372	4.5	68
117	Energy harvesting from fluid flow using piezoelectrics: A critical review. *Renewable Energy*, **2019**, 143, 1826-1838	8.1	66
116	Numerical Simulation of Natural Convection Heat Transfer of Nanofluid With Cu, MWCNT, and Al2O3 Nanoparticles in a Cavity With Different Aspect Ratios. *Journal of Thermal Science and Engineering Applications*, **2019**, 11,	1.9	62
115	Thermal performance of nanofluid in ducts with double forward-facing steps. *Journal of the Taiwan Institute of Chemical Engineers*, **2015**, 47, 28-42	5.3	61
114	Heat transfer and nanofluid flow over a porous plate with radiation and slip boundary conditions. *Journal of Central South University*, **2019**, 26, 1099-1115	2.1	59
113	Comparison of the Finite Volume and Lattice Boltzmann Methods for Solving Natural Convection Heat Transfer Problems inside Cavities and Enclosures. *Abstract and Applied Analysis*, **2014**, 2014, 1-15	0.7	59
112	Potential of Solar Collectors for Clean Thermal Energy Production in Smart Cities using Nanofluids: Experimental Assessment and Efficiency Improvement. *Applied Sciences (Switzerland)*, **2019**, 9, 1877	2.6	57
111	Investigation of pollutant reduction by simulation of turbulent non-premixed pulverized coal combustion. *Applied Thermal Engineering*, **2014**, 73, 1222-1235	5.8	57
110	Numerical Study of Entropy Generation in a Flowing Nanofluid Used in Micro- and Minichannels. *Entropy*, **2013**, 15, 144-155	2.8	57
109	Entropy Generation during Turbulent Flow of Zirconia-water and Other Nanofluids in a Square Cross Section Tube with a Constant Heat Flux. *Entropy*, **2014**, 16, 6116-6132	2.8	56
108	Recent advances in using nanofluids in renewable energy systems and the environmental implications of their uptake. *Nano Energy*, **2021**, 86, 106069	17.1	56
107	Thermal Evaluation of Graphene Nanoplatelets Nanofluid in a Fast-Responding HP with the Potential Use in Solar Systems in Smart Cities. *Applied Sciences (Switzerland)*, **2019**, 9, 2101	2.6	54
106	Performance Evaluation of Nanofluids in an Inclined Ribbed Microchannel for Electronic Cooling Applications **2016**,		54
105	LBM simulation of free convection in a nanofluid filled incinerator containing a hot block. *International Journal of Mechanical Sciences*, **2018**, 144, 172-185	5.5	53
104	Heat transfer analysis of Ga-In-Sn in a compact heat exchanger equipped with straight micro-passages. *International Journal of Heat and Mass Transfer*, **2019**, 139, 675-684	4.9	49
103	Operation analysis, response and performance evaluation of a pulsating heat pipe for low temperature heat recovery. *Energy Conversion and Management*, **2020**, 222, 113230	10.6	49
102	Entropy generation of graphene–platinum hybrid nanofluid flow through a wavy cylindrical microchannel solar receiver by using neural networks. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 1949-1967	4.1	49
101	Assessment and optimization of an integrated energy system with electrolysis and fuel cells for electricity, cooling and hydrogen production using various optimization techniques. *International Journal of Hydrogen Energy*, **2019**, 44, 21379-21396	6.7	45

100	Boundary Layer Flow and Heat Transfer of FMWCNT/Water Nanofluids over a Flat Plate. *Fluids*, **2016**, 1, 31	1.6	45
99	Numerical investigation of heat transfer enhancement in a rectangular heated pipe for turbulent nanofluid. *Scientific World Journal, The*, **2014**, 2014, 369593	2.2	44
98	Effect of Zinc Oxide Nano-Additives and Soybean Biodiesel at Varying Loads and Compression Ratios on VCR Diesel Engine Characteristics. *Symmetry*, **2020**, 12, 1042	2.7	42
97	Mixed convection nanofluid flow over microscale forward-facing step Effect of inclination and step heights. *International Communications in Heat and Mass Transfer*, **2016**, 78, 145-154	5.8	42
96	Experimental study to obtain the viscosity of CuO-loaded nanofluid: effects of nanoparticles mass fraction, temperature and basefluid types to develop a correlation. *Meccanica*, **2018**, 53, 3739-3757	2.1	42
95	Nanofluids as secondary fluid in the refrigeration system: Experimental data, regression, ANFIS, and NN modeling. *International Journal of Heat and Mass Transfer*, **2019**, 144, 118635	4.9	41
94	Heat transfer and fluid flow over microscale backward and forward facing step: A review. *International Communications in Heat and Mass Transfer*, **2016**, 76, 237-244	5.8	40
93	A theoretical model to predict gas permeability for slip flow through a porous medium. *Applied Thermal Engineering*, **2014**, 70, 71-76	5.8	40
92	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	4.1	40
91	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	4.1	39
90	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	3.8	39
89	Effect of absorber plate surface shape and glass cover inclination angle on the performance of a passive solar still. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 3183-3198	4.5	38
88	Comparative study of the performance of air and geothermal sources of heat pumps cycle operating with various refrigerants and vapor injection. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 4037-4047	6.1	37
87	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. *Journal of Thermal Analysis and Calorimetry*, **2020**, 140, 351-362	4.1	37
86	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*, **2019**, 30, 2329-2349	4.5	36
85	Reforming of methanol with steam in a micro-reactor with Cu SiO2 porous catalyst. *International Journal of Hydrogen Energy*, **2019**, 44, 19628-19639	6.7	36
84	Heat Transfer of Oil/MWCNT Nanofluid Jet Injection Inside a Rectangular Microchannel. *Symmetry*, **2019**, 11, 757	2.7	36
83	Clean combustion and emissions strategy using reactivity controlled compression ignition (RCCI) mode engine powered with CNG-Karanja biodiesel. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 124, 116-131	5.3	36

82	Numerical modeling of turbulence mixed convection heat transfer in air filled enclosures by finite volume method. *International Journal of Multiphysics*, **2011**, 5, 307-324	0.6	35
81	Effect of injection parameters and producer gas derived from redgram stalk on the performance and emission characteristics of a diesel engine. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 3133-3142	6.1	35
80	Boiling heat transfer characteristics of graphene oxide nanoplatelets nano-suspensions of water-perfluorohexane (C6F14) and water-n-pentane. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 4511-4521	6.1	33
79	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	4.1	33
78	Thermal analysis and thermo-hydraulic characteristics of zirconia–water nanofluid under a convective boiling regime. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 2413-2422	4.1	30
77	Performance Enhancement of Internal Combustion Engines through Vibration Control: State of the Art and Challenges. *Applied Sciences (Switzerland)*, **2019**, 9, 406	2.6	29
76	Combination Effect of Baffle Arrangement and Hybrid Nanofluid on Thermal Performance of a Shell and Tube Heat Exchanger Using 3-D Homogeneous Mixture Model. *Mathematics*, **2021**, 9, 881	2.3	29
75	Eulerian–lagrangian analysis of solid particle distribution in an internally heated and cooled air-filled cavity. *Applied Mathematics and Computation*, **2015**, 250, 28-46	2.7	28
74	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	3.3	28
73	Bed roughness effects on characteristics of turbulent confined wall jets. *Measurement: Journal of the International Measurement Confederation*, **2018**, 122, 325-338	4.6	26
72	Investigation on the effect of cottonseed oil blended with different percentages of octanol and suspended MWCNT nanoparticles on diesel engine characteristics. *Journal of Thermal Analysis and Calorimetry*, **2020**, 1	4.1	26
71	Experimental investigation and performance optimisation of a catalytic reforming micro-reactor using response surface methodology. *Energy Conversion and Management*, **2019**, 199, 111983	10.6	25
70	Lattice Boltzmann method to simulate convection heat transfer in a microchannel under heat flux. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 3371-3398	4.5	25
69	Mathematical Modeling for Nanofluids Simulation: A Review of the Latest Works **2016**,		25
68	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	4.1	25
67	Modeling and analysis of biomagnetic blood Carreau fluid flow through a stenosis artery with magnetic heat transfer: A transient study. *PLoS ONE*, **2018**, 13, e0192138	3.7	25
66	Thermo-hydraulic performance of a biological nanofluid containing graphene nanoplatelets within a tube enhanced with rotating twisted tape. *Powder Technology*, **2019**, 355, 278-288	5.2	24
65	Cooling Enhancement and Stress Reduction Optimization of Disk-Shaped Electronic Components Using Nanofluids. *Symmetry*, **2020**, 12, 931	2.7	23

64	A Hybrid Finite-Element/Finite-Difference Scheme for Solving the 3-D Energy Equation in Transient Nonisothermal Fluid Flow over a Staggered Tube Bank. *Numerical Heat Transfer, Part B: Fundamentals*, **2015**, 68, 169-183	1.3	23
63	Entropy Generation in Thermal Radiative Loading of Structures with Distinct Heaters. *Entropy*, **2017** , 19, 506	2.8	22
62	Experimental investigation on compression ignition engine powered with pentanol and thevetia peruviana methyl ester under reactivity controlled compression ignition mode of operation. *Case Studies in Thermal Engineering*, **2021**, 25, 100921	5.6	22
61	Heat Transfer Improvement in a Double Backward-Facing Expanding Channel Using Different Working Fluids. *Symmetry*, **2020**, 12, 1088	2.7	21
60	A comprehensive review of milk fouling on heated surfaces. *Critical Reviews in Food Science and Nutrition*, **2015**, 55, 1724-43	11.5	20
59	The Effect of Inclination Angle and Reynolds Number on the Performance of a Direct Contact Membrane Distillation (DCMD) Process. *Energies*, **2020**, 13, 2824	3.1	20
58	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. *Processes*, **2020**, 8, 264	2.9	20
57	Two-phase frictional pressure drop with pure refrigerants in vertical mini/micro-channels. *Case Studies in Thermal Engineering*, **2021**, 23, 100824	5.6	20
56	Introduce a novel configurationof microchannel andhigh-conductivity insertsfor cooling of disc-shaped electronic components. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 2845-2859	4.5	19
55	Multi-Objective Optimization of a Pitch Point Absorber Wave Energy Converter. *Water (Switzerland)*, **2019**, 11, 969	3	18
54	Convective Bubbly Flow of Water in an Annular Pipe: Role of Total Dissolved Solids on Heat Transfer Characteristics and Bubble Formation. *Water (Switzerland)*, **2019**, 11, 1566	3	18
53	Utilization of biodiesel/Al2O3 nanoparticles for combustion behavior enhancement of a diesel engine operated on dual fuel mode. *Journal of Thermal Analysis and Calorimetry*, **2021**, 1	4.1	18
52	Boiling flow of graphene nanoplatelets nano-suspension on a small copper disk. *Powder Technology* , **2021**, 377, 10-19	5.2	18
51	Numerical performance of thermal conductivity in Bioconvection flow of cross nanofluid containing swimming microorganisms over a cylinder with melting phenomenon. *Case Studies in Thermal Engineering*, **2021**, 26, 101181	5.6	17
50	Experimental investigation on rheological, momentum and heat transfer characteristics of flowing fiber crop suspensions. *International Communications in Heat and Mass Transfer*, **2017**, 80, 60-69	5.8	15
49	Mixed convection heat transfer of a nanofluid in a closed elbow-shaped cavity (CESC). *Journal of Thermal Analysis and Calorimetry*, **2021**, 144, 2295	4.1	15
48	Nonlinear function estimation fuzzy system (NFEFS) as a novel statistical approach to estimate nanofluids□thermal conductivity according to empirical data. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 3267-3281	4.5	14
47	High Quality Syngas Production with Supercritical Biomass Gasification Integrated with a Water□as Shift Reactor. *Energies*, **2019**, 12, 2591	3.1	14

46	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	2.6	14
45	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	5.6	14
44	A comprehensive presentation on nanoparticles electrical conductivity of nanofluids: Statistical study concerned effects of temperature, nanoparticles type and solid volume concentration. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 542, 123432	3.3	13
43	Effect of various factors and diverse approaches to enhance the performance of solar stills: a comprehensive review. *Journal of Thermal Analysis and Calorimetry*, **2021**, 1	4.1	13
42	Assessment of Iron Oxide (III)Therminol 66 Nanofluid as a Novel Working Fluid in a Convective Radiator Heating System for Buildings. *Energies*, **2019**, 12, 4327	3.1	13
41	Exergoeconomic optimization of liquefying cycle for noble gas argon. *Heat and Mass Transfer*, **2019**, 55, 1995-2007	2.2	13
40	Oily Wastewater Treatment Using Polyamide Thin Film Composite Membrane Technology. *Membranes*, **2020**, 10,	3.8	12
39	Performance evaluation of a solar still using hybrid nanofluid glass cooling-CFD simulation and environmental analysis. *Sustainable Energy Technologies and Assessments*, **2022**, 49, 101728	4.7	12
38	The impact of baffle orientation on the performance of the hollow fiber membrane58, 35-45		11
37	A Significant Solar Energy Note on Powell-Eyring Nanofluid with Thermal Jump Conditions: Implementing Cattaneo-Christov Heat Flux Model. *Mathematics*, **2021**, 9, 2669	2.3	11
36	Simulation of cavitation of spherically shaped hydrogen bubbles through a tube nozzle with stenosis. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2020**, 30, 2535-2549	4.5	11
35	Energetic Analysis of Different Configurations of Power Plants Connected to Liquid Chemical Looping Gasification. *Processes*, **2019**, 7, 763	2.9	11
34	Performance enhancement of concentrator photovoltaic systems using nanofluids. *International Journal of Energy Research*, **2021**, 45, 2959-2979	4.5	11
33	Influence of coated surfaces and gap size on boiling heat transfer of deionized water. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2020**, 42, 1	2	10
32	LBM simulation of free convection in a nanofluid filled incinerator containing a hot block. *International Journal of Mechanical Sciences*, **2018**, 148, 393-408	5.5	10
31	Non-Isothermal Hydrodynamic Characteristics of a Nanofluid in a Fin-Attached Rotating Tube Bundle. *Mathematics*, **2021**, 9, 1153	2.3	9
30	Thermohydraulics of the liquid films in rotating heat pipes. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 2861-2866	4.5	8
29	Performance evaluation of various nanofluids for parabolic trough collectors. *Sustainable Energy Technologies and Assessments*, **2022**, 50, 101865	4.7	8

28	Thermal and energy management prospects of AlOOH hybrid nanofluids for the application of sustainable heat exchanger systems. *Journal of Thermal Analysis and Calorimetry*,1	4.1	7
27	Bio-based material from fruit waste of orange peel for industrial applications. *Journal of Materials Research and Technology*, **2021**, 17, 3186-3186	5.5	7
26	Numerical study of laminar mixed convection heat transfer of power-law non-Newtonian fluids in square enclosures by finite volume method. *International Journal of Physical Sciences*, **2011**, 6,	0.3	6
25	Numerical investigation of turbulence mixed convection heat transfer of water and drilling mud inside a square enclosure by finite volume method **2012**,		6
24	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. *Mathematics*, **2021**, 9, 3235	2.3	5
23	Adsorption Method for the Remediation of Brilliant Green Dye Using Halloysite Nanotube: Isotherm, Kinetic and Modeling Studies. *Applied Sciences (Switzerland)*, **2021**, 11, 8088	2.6	5
22	Sustainable Adsorption Method for the Remediation of Crystal Violet Dye Using Nutraceutical Industrial Fenugreek Seed Spent. *Applied Sciences (Switzerland)*, **2021**, 11, 7635	2.6	5
21	Improving shipboard electronics cooling system by optimizing the heat sinks configuration. *Journal of Ocean Engineering and Science*, **2021**,	4.4	5
20	Implicit Finite Difference Simulation of Prandtl-Eyring Nanofluid over a Flat Plate with Variable Thermal Conductivity: A Tiwari and Das Model. *Mathematics*, **2021**, 9, 3153	2.3	4
19	Optimizing nozzle convergent angle using central composite design on the particle velocity and acoustic power level for single-hose dry ice blasting nozzle. *Journal of Thermal Analysis and Calorimetry*, **2021**, 144, 2159-2173	4.1	4
18	A Recent Study on Remediation of Direct Blue 15 Dye Using Halloysite Nanotubes. *Applied Sciences (Switzerland)*, **2021**, 11, 8196	2.6	4
17	Applications of Nano-Additives in Internal Combustion Engines: A Critical Review. *Journal of Thermal Analysis and Calorimetry*, **2022**, 1	4.1	3
16	An innovative design of a high strength and low weight sudden micro expansion by considering a nanofluid: Electronic cooling application. *Case Studies in Thermal Engineering*, **2021**, 28, 101637	5.6	3
15	Fluid-structure interaction computational analysis and experiments of tsunami bore forces on coastal bridges. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2021**, 31, 1373-1395	4.5	3
14	Determination of the optimal discharge pressure of the transcritical CO2 heat pump cycles for heating and cooling performances based on new correlation. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 1537-1546	4.1	3
13	A survey of using multiple affiliations by scholars in scientific articles. *Scientometrics*, **2016**, 107, 317-318	3	3
12	Effect of manifold injection of hydrogen gas in producer gas and neem biodiesel fueled CRDI dual fuel engine. *International Journal of Hydrogen Energy*, **2022**,	6.7	3
11	Economic evaluation of utilization of electro-feed water pump and turbo-feed water pump and compare them in a 12.5-megawatts steam unit thermal cycle and provide the optimum solution **2012**,		2

10	Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids. *Chemical Engineering and Technology*,	2	2
9	Simulation of Glass Fiber Reinforced Polypropylene Nanocomposites for Small Wind Turbine Blades. *Processes*, **2021**, 9, 622	2.9	2
8	Investigation of energy consumption and renewable energy resources in top ten countries with most energy consumption. *IOP Conference Series: Materials Science and Engineering*, **2018**, 397, 012108	0.4	2
7	Theoretical Investigation of Vapor Transport Mechanism Using Tubular Membrane Distillation Module. *Membranes*, **2021**, 11,	3.8	2
6	Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds. *Energies*, **2022**, 15, 2727	3.1	2
5	Turbulent boundary layers and hydrodynamic flow analysis of nanofluids over a plate. *Journal of Central South University*, **2021**, 28, 3340-3353	2.1	2
4	The effect of body acceleration on the dispersion of solute in a non-Newtonian blood flow through an artery. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2021**, 31, 2560-2579	4.5	1
3	Performance Analysis of Reinforced Epoxy Functionalized Carbon Nanotubes Composites for Vertical Axis Wind Turbine Blade. *Polymers*, **2021**, 13,	4.5	1
2	Editor Preface for the Special Issue on Nanoparticle-Enhanced Ionic Liquids. *International Journal of Thermophysics*, **2021**, 42, 1	2.1	0
1	Aeroacoustic analysis of dry ice blasting on divergent nozzle length using CFD to acoustic couple simulation. *Journal of Thermal Analysis and Calorimetry*,1	4.1	0