

# Mohammad Reza Safaei

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1101382/mohammad-reza-safaei-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Applications of Nano-Additives in Internal Combustion Engines: A Critical Review. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2022</b> , 1	4.1	3
170	Performance evaluation of a solar still using hybrid nanofluid glass cooling-CFD simulation and environmental analysis. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 49, 101728	4.7	12
169	Performance evaluation of various nanofluids for parabolic trough collectors. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 50, 101865	4.7	8
168	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> , <b>2022</b> ,	6.7	3
167	Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds. <i>Energies</i> , <b>2022</b> , 15, 2727	3.1	2
166	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> , <b>2021</b> , 9, 3235	2.3	5
165	Implicit Finite Difference Simulation of Prandtl-Eyring Nanofluid over a Flat Plate with Variable Thermal Conductivity: A Tiwari and Das Model. <i>Mathematics</i> , <b>2021</b> , 9, 3153	2.3	4
164	An innovative design of a high strength and low weight sudden micro expansion by considering a nanofluid: Electronic cooling application. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101637	5.6	3
163	A Significant Solar Energy Note on Powell-Eyring Nanofluid with Thermal Jump Conditions: Implementing Cattaneo-Christov Heat Flux Model. <i>Mathematics</i> , <b>2021</b> , 9, 2669	2.3	11
162	Editorial Preface for the Special Issue on Nanoparticle-Enhanced Ionic Liquids. <i>International Journal of Thermophysics</i> , <b>2021</b> , 42, 1	2.1	0
161	Fluid-structure interaction computational analysis and experiments of tsunami bore forces on coastal bridges. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2021</b> , 31, 1373-1395	4.5	3
160	Simulation of Glass Fiber Reinforced Polypropylene Nanocomposites for Small Wind Turbine Blades. <i>Processes</i> , <b>2021</b> , 9, 622	2.9	2
159	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> , <b>2021</b> , 9, 881	2.3	29
158	Determination of the optimal discharge pressure of the transcritical CO <sub>2</sub> heat pump cycles for heating and cooling performances based on new correlation. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 1537-1546	4.1	3
157	Effect of various factors and diverse approaches to enhance the performance of solar stills: a comprehensive review. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 1	4.1	13
156	Non-Isothermal Hydrodynamic Characteristics of a Nanofluid in a Fin-Attached Rotating Tube Bundle. <i>Mathematics</i> , <b>2021</b> , 9, 1153	2.3	9
155	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> , <b>2021</b> , 145, 1949-1967	4.1	49

154	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> , <b>2021</b> , 60, 3133-3142	6.1	35
153	Utilization of biodiesel/Al <sub>2</sub> O <sub>3</sub> nanoparticles for combustion behavior enhancement of a diesel engine operated on dual fuel mode. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 1	4.1	18
152	The effect of body acceleration on the dispersion of solute in a non-Newtonian blood flow through an artery. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2021</b> , 31, 2560-2579	4.5	1
151	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> , <b>2021</b> , 25, 100921	5.6	22
150	Thermal analysis of a binary base fluid in pool boiling system of glycol/water alumina nano-suspension. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 2453-2462	4.1	33
149	Performance enhancement of concentrator photovoltaic systems using nanofluids. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 2959-2979	4.5	11
148	Optimizing nozzle convergent angle using central composite design on the particle velocity and acoustic power level for single-hose dry ice blasting nozzle. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 2159-2173	4.1	4
147	Effect of Sr@ZnO nanoparticles and Ricinus communis biodiesel-diesel fuel blends on modified CRDI diesel engine characteristics. <i>Energy</i> , <b>2021</b> , 215, 119094	7.9	69
146	Thermal and mechanical design of tangential hybrid microchannel and high-conductivity inserts for cooling of disk-shaped electronic components. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 2125-2133	4.1	25
145	Boiling flow of graphene nanoplatelets nano-suspension on a small copper disk. <i>Powder Technology</i> , <b>2021</b> , 377, 10-19	5.2	18
144	Performance Analysis of Reinforced Epoxy Functionalized Carbon Nanotubes Composites for Vertical Axis Wind Turbine Blade. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
143	Mixed convection heat transfer of a nanofluid in a closed elbow-shaped cavity (CESC). <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 2295	4.1	15
142	Two-phase frictional pressure drop with pure refrigerants in vertical mini/micro-channels. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 23, 100824	5.6	20
141	Theoretical Investigation of Vapor Transport Mechanism Using Tubular Membrane Distillation Module. <i>Membranes</i> , <b>2021</b> , 11,	3.8	2
140	Experimental Analysis of Engine Performance and Exhaust Pollutant on a Single-Cylinder Diesel Engine Operated Using Moringa Oleifera Biodiesel. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7071	2.6	14
139	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> , <b>2021</b> , 124, 116-131	5.3	36
138	Adsorption Method for the Remediation of Brilliant Green Dye Using Halloysite Nanotube: Isotherm, Kinetic and Modeling Studies. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8088	2.6	5
137	Sustainable Adsorption Method for the Remediation of Crystal Violet Dye Using Nutraceutical Industrial Fenugreek Seed Spent. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7635	2.6	5

136	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> , <b>2021</b> , 26, 101181	5.6	17
135	Recent advances in using nanofluids in renewable energy systems and the environmental implications of their uptake. <i>Nano Energy</i> , <b>2021</b> , 86, 106069	17.1	56
134	Bio-based material from fruit waste of orange peel for industrial applications. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 17, 3186-3186	5.5	7
133	A Recent Study on Remediation of Direct Blue 15 Dye Using Halloysite Nanotubes. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8196	2.6	4
132	Improving shipboard electronics cooling system by optimizing the heat sinks configuration. <i>Journal of Ocean Engineering and Science</i> , <b>2021</b> ,	4.4	5
131	A detailed hydrothermal investigation of a helical micro double-tube heat exchanger for a wide range of helix pitch length. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101413	5.6	14
130	Turbulent boundary layers and hydrodynamic flow analysis of nanofluids over a plate. <i>Journal of Central South University</i> , <b>2021</b> , 28, 3340-3353	2.1	2
129	Boiling heat transfer characteristics of graphene oxide nanoplatelets nano-suspensions of water-perfluorohexane (C6F14) and water-n-pentane. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 4511-4521	6.1	33
128	Oily Wastewater Treatment Using Polyamide Thin Film Composite Membrane Technology. <i>Membranes</i> , <b>2020</b> , 10,	3.8	12
127	Configuration and Optimization of a Minichannel Using Water-Alumina Nanofluid by Non-Dominated Sorting Genetic Algorithm and Response Surface Method. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	74
126	The Effect of Inclination Angle and Reynolds Number on the Performance of a Direct Contact Membrane Distillation (DCMD) Process. <i>Energies</i> , <b>2020</b> , 13, 2824	3.1	20
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> , <b>2020</b> , 8, 264	2.9	20
124	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> , <b>2020</b> , 12, 961	2.7	72
123	Cooling Enhancement and Stress Reduction Optimization of Disk-Shaped Electronic Components Using Nanofluids. <i>Symmetry</i> , <b>2020</b> , 12, 931	2.7	23
122	Effect of Zinc Oxide Nano-Additives and Soybean Biodiesel at Varying Loads and Compression Ratios on VCR Diesel Engine Characteristics. <i>Symmetry</i> , <b>2020</b> , 12, 1042	2.7	42
121	Heat Transfer Improvement in a Double Backward-Facing Expanding Channel Using Different Working Fluids. <i>Symmetry</i> , <b>2020</b> , 12, 1088	2.7	21
120	Influence of coated surfaces and gap size on boiling heat transfer of deionized water. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2020</b> , 42, 1	2	10
119	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> , <b>2020</b> , 542, 123432	3.3	13

118	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> , <b>2020</b> , 1	4.1	26
117	Operation analysis, response and performance evaluation of a pulsating heat pipe for low temperature heat recovery. <i>Energy Conversion and Management</i> , <b>2020</b> , 222, 113230	10.6	49
116	Simulation of cavitation of spherically shaped hydrogen bubbles through a tube nozzle with stenosis. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2020</b> , 30, 2535-2549	4.5	11
115	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> , <b>2020</b> , 59, 4037-4047	6.1	37
114	Thermal analysis and thermo-hydraulic characteristics of zirconia/water nanofluid under a convective boiling regime. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 2413-2422	4.1	30
113	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> , <b>2020</b> , 140, 351-362	4.1	37
112	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> , <b>2020</b> , 140, 1121-1145	4.1	115
111	Empirical correlations development for heat transfer and friction factor of a solar rectangular air passage with spherical-shaped turbulence promoters. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 1195-1212	4.1	40
110	Experimental investigation and performance optimisation of a catalytic reforming micro-reactor using response surface methodology. <i>Energy Conversion and Management</i> , <b>2019</b> , 199, 111983	10.6	25
109	Nanofluids as secondary fluid in the refrigeration system: Experimental data, regression, ANFIS, and NN modeling. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 144, 118635	4.9	41
108	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> , <b>2019</b> , 521, 138-145	3.3	95
107	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> , <b>2019</b> , 521, 89-97	3.3	95
106	Performance Enhancement of Internal Combustion Engines through Vibration Control: State of the Art and Challenges. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 406	2.6	29
105	Application of Nanofluids in Thermal Performance Enhancement of Parabolic Trough Solar Collector: State-of-the-Art. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 463	2.6	134
104	Thermal Assessment of Nano-Particulate Graphene-Water/Ethylene Glycol (WEG 60:40) Nano-Suspension in a Compact Heat Exchanger. <i>Energies</i> , <b>2019</b> , 12, 1929	3.1	87
103	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> , <b>2019</b> , 9, 2101	2.6	54
102	Numerical Simulation of Natural Convection Heat Transfer of Nanofluid With Cu, MWCNT, and Al <sub>2</sub> O <sub>3</sub> Nanoparticles in a Cavity With Different Aspect Ratios. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2019</b> , 11,	1.9	62
101	Simulation of water/FMWCNT nanofluid forced convection in a microchannel filled with porous material under slip velocity and temperature jump boundary conditions. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 2329-2349	4.5	36

100	Reforming of methanol with steam in a micro-reactor with CuBiO <sub>2</sub> porous catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 19628-19639	6.7	36
99	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> , <b>2019</b> , 139, 675-684	4.9	49
98	Heat Transfer of Oil/MWCNT Nanofluid Jet Injection Inside a Rectangular Microchannel. <i>Symmetry</i> , <b>2019</b> , 11, 757	2.7	36
97	Thermohydraulics of the liquid films in rotating heat pipes. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 2861-2866	4.5	8
96	Solar Still Efficiency Enhancement by Using Graphene Oxide/Paraffin Nano-PCM. <i>Energies</i> , <b>2019</b> , 12, 2003-1	3.1	97
95	Heat transfer and nanofluid flow over a porous plate with radiation and slip boundary conditions. <i>Journal of Central South University</i> , <b>2019</b> , 26, 1099-1115	2.1	59
94	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> , <b>2019</b> , 30, 2845-2859	4.5	19
93	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> , <b>2019</b> , 30, 3371-3398	4.5	25
92	Nonlinear function estimation fuzzy system (NFEFS) as a novel statistical approach to estimate nanofluids thermal conductivity according to empirical data. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 3267-3281	4.5	14
91	Energy harvesting from fluid flow using piezoelectrics: A critical review. <i>Renewable Energy</i> , <b>2019</b> , 143, 1826-1838	8.1	66
90	Multi-Objective Optimization of a Pitch Point Absorber Wave Energy Converter. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 969	3	18
89	Potential of Solar Collectors for Clean Thermal Energy Production in Smart Cities using Nanofluids: Experimental Assessment and Efficiency Improvement. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1877	2.6	57
88	Diurnal thermal evaluation of an evacuated tube solar collector (ETSC) charged with graphene nanoplatelets-methanol nano-suspension. <i>Renewable Energy</i> , <b>2019</b> , 142, 364-372	8.1	110
87	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> , <b>2019</b> , 135, 1643-1654	4.1	85
86	Numerical investigation of serrated fins on natural convection from concentric and eccentric annuli with different cross sections. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 1429-1442	4.1	39
85	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> , <b>2019</b> , 11, 1566	3	18
84	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> , <b>2019</b> , 534, 122146	3.3	81
83	Estimate the shear rate & apparent viscosity of multi-phased non-Newtonian hybrid nanofluids via new developed Support Vector Machine method coupled with sensitivity analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 535, 122456	3.3	28

82	Thermo-hydraulic performance of a biological nanofluid containing graphene nanoplatelets within a tube enhanced with rotating twisted tape. <i>Powder Technology</i> , <b>2019</b> , 355, 278-288	5.2	24
81	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> , <b>2019</b> , 44, 21379-21396	6.7	45
80	High Quality Syngas Production with Supercritical Biomass Gasification Integrated with a Water-Gas Shift Reactor. <i>Energies</i> , <b>2019</b> , 12, 2591	3.1	14
79	Experimental Investigation on Thermal Performance of a PV/T-PCM (Photovoltaic/Thermal) System Cooling with a PCM and Nanofluid. <i>Energies</i> , <b>2019</b> , 12, 2572	3.1	91
78	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> , <b>2019</b> , 30, 347-372	4.5	68
77	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> , <b>2019</b> , 30, 3183-3198	4.5	38
76	Assessment of Iron Oxide (III)Therminol 66 Nanofluid as a Novel Working Fluid in a Convective Radiator Heating System for Buildings. <i>Energies</i> , <b>2019</b> , 12, 4327	3.1	13
75	Energetic Analysis of Different Configurations of Power Plants Connected to Liquid Chemical Looping Gasification. <i>Processes</i> , <b>2019</b> , 7, 763	2.9	11
74	Effects of cobalt ferrite coated with silica nanocomposite on the thermal conductivity of an antifreeze: New nanofluid for refrigeration condensers. <i>International Journal of Refrigeration</i> , <b>2019</b> , 102, 86-95	3.8	39
73	Evaluating the effect of temperature and concentration on the thermal conductivity of ZnO-TiO <sub>2</sub> /EG hybrid nanofluid using artificial neural network and curve fitting on experimental data. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 519, 209-216	3.3	109
72	Exergoeconomic optimization of liquefying cycle for noble gas argon. <i>Heat and Mass Transfer</i> , <b>2019</b> , 55, 1995-2007	2.2	13
71	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> , <b>2019</b> , 180, 72-82	10.6	78
70	A smoothed particle hydrodynamics approach for numerical simulation of nano-fluid flows. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 1733-1741	4.1	92
69	Flow and heat transfer in non-Newtonian nanofluids over porous surfaces. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 1655-1666	4.1	107
68	Bed roughness effects on characteristics of turbulent confined wall jets. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 122, 325-338	4.6	26
67	Application of nanofluid to improve the thermal performance of horizontal spiral coil utilized in solar ponds: Geometric study. <i>Renewable Energy</i> , <b>2018</b> , 122, 1-16	8.1	103
66	Natural convection heat transfer enhancement in new designs of plate-fin based heat sinks. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 125, 640-647	4.9	82
65	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> , <b>2018</b> , 509, 515-535	3.3	133

64	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> , <b>2018</b> , 127, 925-935	4.9	98
63	The effect of attack angle of triangular ribs on heat transfer of nanofluids in a microchannel. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 131, 2893-2912	4.1	104
62	Modeling and analysis of biomagnetic blood Carreau fluid flow through a stenosis artery with magnetic heat transfer: A transient study. <i>PLoS ONE</i> , <b>2018</b> , 13, e0192138	3.7	25
61	Investigation of energy consumption and renewable energy resources in top ten countries with most energy consumption. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 397, 012108	0.4	2
60	Experimental study to obtain the viscosity of CuO-loaded nanofluid: effects of nanoparticles mass fraction, temperature and basefluid types to develop a correlation. <i>Meccanica</i> , <b>2018</b> , 53, 3739-3757	2.1	42
59	LBM simulation of free convection in a nanofluid filled incinerator containing a hot block. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 148, 393-408	5.5	10
58	Synthesized CuFe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposites added to water/EG: Evaluation of the thermophysical properties beside sensitivity analysis & EANN. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 127, 1169-1179	4.9	117
57	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> , <b>2018</b> , 125, 920-932	4.9	128
56	LBM simulation of free convection in a nanofluid filled incinerator containing a hot block. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 144, 172-185	5.5	53
55	Experimental investigation on rheological, momentum and heat transfer characteristics of flowing fiber crop suspensions. <i>International Communications in Heat and Mass Transfer</i> , <b>2017</b> , 80, 60-69	5.8	15
54	Comparison of experimental data, modelling and non-linear regression on transport properties of mineral oil based nanofluids. <i>Powder Technology</i> , <b>2017</b> , 317, 458-470	5.2	72
53	New temperature, interfacial shell dependent dimensionless model for thermal conductivity of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 114, 207-210	4.9	131
52	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> , <b>2017</b> , 113, 780-795	4.9	180
51	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> , <b>2017</b> , 91, 15-31	3	146
50	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> , <b>2017</b> , 88, 60-76	3	154
49	Entropy Generation in Thermal Radiative Loading of Structures with Distinct Heaters. <i>Entropy</i> , <b>2017</b> , 19, 506	2.8	22
48	A modified two-phase mixture model of nanofluid flow and heat transfer in a 3-D curved microtube. <i>Advanced Powder Technology</i> , <b>2016</b> , 27, 2175-2185	4.6	147
47	Investigation of rib's height effect on heat transfer and flow parameters of laminar water-Al <sub>2</sub> O <sub>3</sub> nanofluid in a rib-microchannel. <i>Applied Mathematics and Computation</i> , <b>2016</b> , 290, 135-153	2.7	195



46	Heat transfer and fluid flow over microscale backward and forward facing step: A review. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 76, 237-244	5.8	40
45	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> , <b>2016</b> , 74, 265-270	3	136
44	Performance Evaluation of Nanofluids in an Inclined Ribbed Microchannel for Electronic Cooling Applications <b>2016</b> ,		54
43	Heat Transfer and Pressure Drop in Fully Developed Turbulent Flows of Graphene Nanoplatelets/Silver/Water Nanofluids. <i>Fluids</i> , <b>2016</b> , 1, 20	1.6	69
42	Boundary Layer Flow and Heat Transfer of FMWCNT/Water Nanofluids over a Flat Plate. <i>Fluids</i> , <b>2016</b> , 1, 31	1.6	45
41	Mathematical Modeling for Nanofluids Simulation: A Review of the Latest Works <b>2016</b> ,		25
40	A survey on experimental and numerical studies of convection heat transfer of nanofluids inside closed conduits. <i>Advances in Mechanical Engineering</i> , <b>2016</b> , 8, 168781401667356	1.2	94
39	A survey of using multiple affiliations by scholars in scientific articles. <i>Scientometrics</i> , <b>2016</b> , 107, 317-3183		3
38	Prediction of dynamic viscosity of a hybrid nano-lubricant by an optimal artificial neural network. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 76, 209-214	5.8	137
37	Viscosity of nanofluids: A review of recent experimental studies. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 73, 114-123	5.8	216
36	Mixed convection nanofluid flow over microscale forward-facing step [Effect of inclination and step heights. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 78, 145-154	5.8	42
35	Particle size and type effects on heat transfer enhancement of Ferro-nanofluids in a pulsating heat pipe. <i>Powder Technology</i> , <b>2016</b> , 301, 1218-1226	5.2	151
34	Thermal conductivity of Cu/TiO <sub>2</sub> /Water/EG hybrid nanofluid: Experimental data and modeling using artificial neural network and correlation. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 66, 100-104	5.8	280
33	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG/Water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 65, 47-51	5.8	96
32	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> , <b>2015</b> , 66, 172-179	5.8	163
31	Effect of Magnetic Field on Free Convection in Inclined Cylindrical Annulus Containing Molten Potassium. <i>International Journal of Applied Mechanics</i> , <b>2015</b> , 07, 1550052	2.4	81
30	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> , <b>2015</b> , 68, 69-77	5.8	125
29	Basic effects of pulp refining on fiber properties--a review. <i>Carbohydrate Polymers</i> , <b>2015</b> , 115, 785-803	10.3	160

28	Eulerian-Lagrangian analysis of solid particle distribution in an internally heated and cooled air-filled cavity. <i>Applied Mathematics and Computation</i> , <b>2015</b> , 250, 28-46	2.7	28
27	A comprehensive review of milk fouling on heated surfaces. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2015</b> , 55, 1724-43	11.5	20
26	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> , <b>2015</b> , 49, 89-99	2.4	209
25	Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al <sub>2</sub> O <sub>3</sub> nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 88, 728-734	4.9	155
24	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> , <b>2015</b> , 68, 169-183	1.3	23
23	Thermal performance of nanofluid in ducts with double forward-facing steps. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2015</b> , 47, 28-42	5.3	61
22	MHD mixed convection in a vertical annulus filled with Al <sub>2</sub> O <sub>3</sub> -water nanofluid considering nanoparticle migration. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 382, 296-306	2.8	133
21	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> , <b>2014</b> , 402, 150-168	3.3	235
20	A comprehensive literature review of bio-fuel performance in internal combustion engine and relevant costs involvement. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 30, 29-44	16.2	106
19	Numerical simulation of laminar to turbulent nanofluid flow and heat transfer over a backward-facing step. <i>Applied Mathematics and Computation</i> , <b>2014</b> , 239, 153-170	2.7	94
18	Investigation of Heat Transfer Enhancement in a Forward-Facing Contracting Channel Using FMWCNT Nanofluids. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 66, 1321-1340	2.3	197
17	Investigation of pollutant reduction by simulation of turbulent non-premixed pulverized coal combustion. <i>Applied Thermal Engineering</i> , <b>2014</b> , 73, 1222-1235	5.8	57
16	A theoretical model to predict gas permeability for slip flow through a porous medium. <i>Applied Thermal Engineering</i> , <b>2014</b> , 70, 71-76	5.8	40
15	Numerical investigation of heat transfer enhancement in a rectangular heated pipe for turbulent nanofluid. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 369593	2.2	44
14	Investigation of micro- and nanosized particle erosion in a 90° pipe bend using a two-phase discrete phase model. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 740578	2.2	88
13	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, The</i> , <b>2014</b> , 2014, 761745	2.2	71
12	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> , <b>2014</b> , 2014, 1-15	0.7	59
11	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> , <b>2014</b> , 16, 6116-6132	2.8	56

10	Investigation of nanofluid mixed convection in a shallow cavity using a two-phase mixture model. <i>International Journal of Thermal Sciences</i> , <b>2014</b> , 75, 204-220	4.1	243
9	Numerical Study of Entropy Generation in a Flowing Nanofluid Used in Micro- and Minichannels. <i>Entropy</i> , <b>2013</b> , 15, 144-155	2.8	57
8	Numerical investigation of turbulence mixed convection heat transfer of water and drilling mud inside a square enclosure by finite volume method <b>2012</b> ,		6
7	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 <b>2012</b> ,		2
6	Numerical modeling of turbulence mixed convection heat transfer in air filled enclosures by finite volume method. <i>International Journal of Multiphysics</i> , <b>2011</b> , 5, 307-324	0.6	35
5	Numerical study of laminar mixed convection heat transfer of power-law non-Newtonian fluids in square enclosures by finite volume method. <i>International Journal of Physical Sciences</i> , <b>2011</b> , 6,	0.3	6
4	The impact of baffle orientation on the performance of the hollow fiber membrane58, 35-45		11
3	Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids. <i>Chemical Engineering and Technology</i> ,	2	2
2	Aeroacoustic analysis of dry ice blasting on divergent nozzle length using CFD to acoustic couple simulation. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	0
1	Thermal and energy management prospects of $\text{Al}_2\text{O}_3/\text{H}_2\text{O}$ hybrid nanofluids for the application of sustainable heat exchanger systems. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	7