# Mohammad Hemmat Esfe

### List of Publications by Citations

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

211 papers 11,320 citations

73 h-index 101 g-index

218 ext. papers

12,603 ext. citations

4.3 avg, IF

7.42 L-index

#	Paper	IF	Citations
211	Experimental determination of thermal conductivity and dynamic viscosity of AgMgO/water hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 66, 189-195	5.8	355
210	Thermal conductivity of Cu/TiO2Water/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
209	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
208	An experimental study on the effect of diameter on thermal conductivity and dynamic viscosity of Fe/water nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 119, 1817-1824	4.1	225
207	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
206	Thermal conductivity modeling of MgO/EG nanofluids using experimental data and artificial neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2014</b> , 118, 287-294	4.1	190
205	Thermophysical properties, heat transfer and pressure drop of COOH-functionalized multi walled carbon nanotubes/water nanofluids. <i>International Communications in Heat and Mass Transfer</i> , <b>2014</b> , 58, 176-183	5.8	186
204	Experimental studies on the convective heat transfer performance and thermophysical properties of MgOWater nanofluid under turbulent flow. <i>Experimental Thermal and Fluid Science</i> , <b>2014</b> , 52, 68-78	3	180
203	Effects of temperature and concentration on rheological behavior of MWCNTs/SiO2(20 <b>B</b> 0)-SAE40 hybrid nano-lubricant. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 76, 133-138	5.8	177
202	An applicable study on the thermal conductivity of SWCNT-MgO hybrid nanofluid and price-performance analysis for energy management. <i>Applied Thermal Engineering</i> , <b>2017</b> , 111, 1202-1210	o <sup>5.8</sup>	176
201	Designing an artificial neural network to predict dynamic viscosity of aqueous nanofluid of TiO2 using experimental data. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 75, 192-196	5.8	173
200	An inspection of thermal conductivity of CuO-SWCNTs hybrid nanofluid versus temperature and concentration using experimental data, ANN modeling and new correlation. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 231, 364-369	6	155
199	Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al2O3 nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 88, 728-734	4.9	155
198	Examination of rheological behavior of MWCNTs/ZnO-SAE40 hybrid nano-lubricants under various temperatures and solid volume fractions. <i>Experimental Thermal and Fluid Science</i> , <b>2017</b> , 80, 384-390	3	154
197	Designing an artificial neural network to predict thermal conductivity and dynamic viscosity of ferromagnetic nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 68, 50-57	5.8	154
196	Applicability of artificial neural network and nonlinear regression to predict thermal conductivity modeling of Al2O3Water nanofluids using experimental data. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 66, 246-249	5.8	147
195	An experimental investigation and new correlation of viscosity of ZnOEG nanofluid at various temperatures and different solid volume fractions. <i>Experimental Thermal and Fluid Science</i> , <b>2014</b> , 55, 1-5	3	145

194	Experimental study on thermal conductivity of DWCNT-ZnO/water-EG nanofluids. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 68, 248-251	5.8	144	
193	Heat transfer characteristics and pressure drop of COOH-functionalized DWCNTs/water nanofluid in turbulent flow at low concentrations. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 73, 186-	19 <sup>1</sup> 4 <sup>9</sup>	144	
192	Experimental evaluation, sensitivity analyzation and ANN modeling of thermal conductivity of ZnO-MWCNT/EG-water hybrid nanofluid for engineering applications. <i>Applied Thermal Engineering</i> , <b>2017</b> , 125, 673-685	5.8	136	
191	Study on thermal conductivity of water-based nanofluids with hybrid suspensions of CNTs/Al2O3 nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 124, 455-460	4.1	136	
190	Thermal conductivity of Al2O3/water nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2014</b> , 117, 675-681	4.1	135	
189	Investigation of rheological behavior of MWCNT (COOH-functionalized)/MgO - Engine oil hybrid nanofluids and modelling the results with artificial neural networks. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 241, 173-181	6	133	
188	Estimation of thermal conductivity of Al2O3/water (40%) Bthylene glycol (60%) by artificial neural network and correlation using experimental data. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 74, 125-128	5.8	132	
187	An experimental study on viscosity of alumina-engine oil: Effects of temperature and nanoparticles concentration. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 76, 202-208	5.8	127	
186	Modeling of thermal conductivity of MWCNT-SiO2 (30:70%)/EG hybrid nanofluid, sensitivity analyzing and cost performance for industrial applications. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 131, 1437-1447	4.1	126	
185	Thermal conductivity enhancement of SiO2MWCNT (85:15 %)EG hybrid nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 128, 249-258	4.1	122	
184	Turbulent forced convection heat transfer and thermophysical properties of MgoWater nanofluid with consideration of different nanoparticles diameter, an empirical study. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 119, 1205-1213	4.1	117	
183	Modeling of thermal conductivity of ZnO-EG using experimental data and ANN methods. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 63, 35-40	5.8	116	
182	Evaluation of thermal conductivity of COOH-functionalized MWCNTs/water via temperature and solid volume fraction by using experimental data and ANN methods. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 121, 1273-1278	4.1	115	
181	Estimation of thermal conductivity of ethylene glycol-based nanofluid with hybrid suspensions of SWCNTAl2O3 nanoparticles by correlation and ANN methods using experimental data. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 128, 1359-1371	4.1	112	
180	Applications of feedforward multilayer perceptron artificial neural networks and empirical correlation for prediction of thermal conductivity of Mg(OH) 2 EG using experimental data. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 67, 46-50	5.8	110	
179	Multi-objective optimization of nanofluid flow in double tube heat exchangers for applications in energy systems. <i>Energy</i> , <b>2017</b> , 137, 160-171	7.9	107	
178	Natural convection in a trapezoidal enclosure filled with carbon nanotube EGW ater nanofluid. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 92, 76-82	4.9	106	
177	An experimental evaluation of the effect of ZnO nanoparticles on the rheological behavior of engine oil. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 236, 198-204	6	105	

176	An experimental study on thermal conductivity of MgO nanoparticles suspended in a binary mixture of water and ethylene glycol. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 67, 173-175	5.8	104
175	Experimental evaluation, new correlation proposing and ANN modeling of thermal properties of EG based hybrid nanofluid containing ZnO-DWCNT nanoparticles for internal combustion engines applications. <i>Applied Thermal Engineering</i> , <b>2018</b> , 133, 452-463	5.8	99
174	Experimental investigation of thermal conductivity of CNTs-Al2O3/water: A statistical approach. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 69, 29-33	5.8	97
173	Evaluation of rheological behavior of 10W40 lubricant containing hybrid nano-material by measuring dynamic viscosity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2017</b> , 92, 47-54	3	96
172	Experimental investigation and development of new correlations for thermal conductivity of CuO/EGIVater nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 65, 47-51	5.8	96
171	Optimization, modeling and accurate prediction of thermal conductivity and dynamic viscosity of stabilized ethylene glycol and water mixture Al 2 O 3 nanofluids by NSGA-II using ANN. <i>International Communications in Heat and Mass Transfer</i> , <b>2017</b> , 82, 154-160	5.8	96
170	Thermal conductivity and viscosity of Mg(OH)2-ethylene glycol nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 120, 1145-1149	4.1	96
169	Improving engine oil lubrication in light-duty vehicles by using of dispersing MWCNT and ZnO nanoparticles in 5W50 as viscosity index improvers (VII). <i>Applied Thermal Engineering</i> , <b>2018</b> , 143, 493-50	<b>€</b> <sup>5.8</sup>	93
168	ANN modeling, cost performance and sensitivity analyzing of thermal conductivity of DWCNTBiO2/EG hybrid nanofluid for higher heat transfer. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 131, 2381-2393	4.1	93
167	Predicting the effects of magnesium oxide nanoparticles and temperature on the thermal conductivity of water using artificial neural network and experimental data. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2017</b> , 87, 242-247	3	92
166	Designing artificial neural network on thermal conductivity of Al2O3WaterEG (6040 %) nanofluid using experimental data. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 126, 837-843	4.1	92
165	Thermal conductivity and viscosity optimization of nanodiamond-Co3O4/EG (40:60) aqueous nanofluid using NSGA-II coupled with RSM. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 238, 545-552	6	91
164	Modeling and estimation of thermal conductivity of MgOWater/EG (60:40) by artificial neural network and correlation. <i>International Communications in Heat and Mass Transfer</i> , <b>2015</b> , 68, 98-103	5.8	91
163	Using artificial neural network to predict thermal conductivity of ethylene glycol with alumina nanoparticle. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 126, 643-648	4.1	91
162	Estimation of thermal conductivity of CNTs-water in low temperature by artificial neural network and correlation. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 76, 376-381	5.8	90
161	Rheological behavior characteristics of TiO2-MWCNT/10w40 hybrid nano-oil affected by temperature, concentration and shear rate: An experimental study and a neural network simulating. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2017</b> , 94, 231-240	3	90
160	Effect of induced electric field on magneto-natural convection in a vertical cylindrical annulus filled with liquid potassium. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 90, 418-426	4.9	88
159	Experimental investigation and model development of the non-Newtonian behavior of CuO-MWCNT-10w40 hybrid nano-lubricant for lubrication purposes. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 249, 677-687	6	87

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	158	artificial neural network using experimental data. <i>Physica A: Statistical Mechanics and Its</i> Applications, <b>2018</b> , 510, 625-634	3.3	87	
	157	A novel applicable experimental study on the thermal behavior of SWCNTs(60%)-MgO(40%)/EG hybrid nanofluid by focusing on the thermal conductivity. <i>Powder Technology</i> , <b>2019</b> , 342, 998-1007	5.2	86	
	156	Mixed convection heat transfer from surface-mounted block heat sources in a horizontal channel with nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 89, 783-791	4.9	85	
:	155	Efficiency of ferromagnetic nanoparticles suspended in ethylene glycol for applications in energy devices: Effects of particle size, temperature, and concentration. <i>International Communications in Heat and Mass Transfer</i> , <b>2014</b> , 58, 138-146	5.8	85	
	154	Effects of functionalized single walled carbon nanotubes on thermal performance of antifreeze: An experimental study on thermal conductivity. <i>Applied Thermal Engineering</i> , <b>2017</b> , 120, 358-366	5.8	84	
:	153	Mixed-convection flow and heat transfer in an inclined cavity equipped to a hot obstacle using nanofluids considering temperature-dependent properties. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 85, 656-666	4.9	84	
-	152	Rheological characteristics of MgO/oil nanolubricants: Experimental study and neural network modeling. <i>International Communications in Heat and Mass Transfer</i> , <b>2017</b> , 86, 245-252	5.8	84	
	151	Multi-objective optimization of cost and thermal performance of double walled carbon nanotubes/water nanofluids by NSGA-II using response surface method. <i>Applied Thermal Engineering</i> , <b>2017</b> , 112, 1648-1657	5.8	84	
-	150	Prediction of rheological behavior of SiO2-MWCNTs/10W40 hybrid nanolubricant by designing neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 131, 2741-2748	4.1	83	
	149	Empirical study and model development of thermal conductivity improvement and assessment of cost and sensitivity of EG-water based SWCNT-ZnO (30%:70%) hybrid nanofluid. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 244, 252-261	6	82	
-	148	Viscosity and rheological properties of antifreeze based nanofluid containing hybrid nano-powders of MWCNTs and TiO2 under different temperature conditions. <i>Powder Technology</i> , <b>2019</b> , 342, 808-816	5.2	82	
	147	Experimental investigation on non-Newtonian behavior of Al2O3-MWCNT/5W50 hybrid nano-lubricant affected by alterations of temperature, concentration and shear rate for engine applications. <i>International Communications in Heat and Mass Transfer</i> , <b>2017</b> , 82, 97-102	5.8	81	
	146	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	
	145	Experimental investigation, model development and sensitivity analysis of rheological behavior of ZnO/10W40 nano-lubricants for automotive applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2017</b> , 90, 194-203	3	79	
-	144	Price-performance evaluation of thermal conductivity enhancement of nanofluids with different particle sizes. <i>Applied Thermal Engineering</i> , <b>2018</b> , 128, 373-380	5.8	79	
	143	Application of three-level general factorial design approach for thermal conductivity of MgO/water nanofluids. <i>Applied Thermal Engineering</i> , <b>2017</b> , 127, 1194-1199	5.8	79	
	142	Three dimensional simulation of natural convection and entropy generation in an air and MWCNT/water nanofluid filled cuboid as two immiscible fluids with emphasis on the nanofluid height ratios effects. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 227, 223-233	6	76	
	141	Magneto-natural convection in square cavities with a source-sink pair on different walls.  International Journal of Applied Electromagnetics and Mechanics, 2015, 47, 21-32	0.4	76	

140	Experimental study for developing an accurate model to predict viscosity of CuO\(\text{B}\)thylene glycol nanofluid using genetic algorithm based neural network. <i>Powder Technology</i> , <b>2018</b> , 338, 383-390	5.2	76
139	Proposing new hybrid nano-engine oil for lubrication of internal combustion engines: Preventing cold start engine damages and saving@energy. <i>Energy</i> , <b>2019</b> , 170, 228-238	7.9	75
138	The optimization of viscosity and thermal conductivity in hybrid nanofluids prepared with magnetic nanocomposite of nanodiamond cobalt-oxide (ND-Co3O4) using NSGA-II and RSM. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 79, 128-134	5.8	73
137	Optimization of MWCNTs (10%) [Al2O3 (90%)/5W50 nanofluid viscosity using experimental data and artificial neural network. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 512, 731-744	3.3	67
136	EFFECT OF NANOFLUID VARIABLE PROPERTIES ON MIXED CONVECTION FLOW AND HEAT TRANSFER IN AN INCLINED TWO-SIDED LID-DRIVEN CAVITY WITH SINUSOIDAL HEATING ON SIDEWALLS. <i>Heat Transfer Research</i> , <b>2014</b> , 45, 409-432	3.9	67
135	Designing a neural network for predicting the heat transfer and pressure drop characteristics of Ag/water nanofluids in a heat exchanger. <i>Applied Thermal Engineering</i> , <b>2017</b> , 126, 559-565	5.8	64
134	A comparison of performance of several artificial intelligence methods for predicting the dynamic viscosity of TiO2/SAE 50 nano-lubricant. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 96, 85-93	3	63
133	A novel study on rheological behavior of ZnO-MWCNT/10w40 nanofluid for automotive engines. Journal of Molecular Liquids, <b>2018</b> , 254, 406-413	6	59
132	Application of nanofluids and fluids in photovoltaic thermal system: An updated review. <i>Solar Energy</i> , <b>2020</b> , 199, 796-818	6.8	58
131	Experimental investigation of switchable behavior of CuO-MWCNT (85% \$\bar{1}\$5%)/10W-40 hybrid nano-lubricants for applications in internal combustion engines. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 242, 326-335	6	57
130	Design of a heat exchanger working with organic nanofluids using multi-objective particle swarm optimization algorithm and response surface method. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 119, 922-930	4.9	57
129	Thermal conductivity of a hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 134, 1113	3-4.122	55
128	Designing an artificial neural network using radial basis function (RBF-ANN) to model thermal conductivity of ethylene glycolwater-based TiO2 nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 127, 2125-2131	4.1	55
127	Investigation of rheological behavior of hybrid oil based nanolubricant-coolant applied in car engines and cooling equipments. <i>Applied Thermal Engineering</i> , <b>2018</b> , 131, 1026-1033	5.8	55
126	A study on rheological characteristics of hybrid nano-lubricants containing MWCNT-TiO2 nanoparticles. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 260, 229-236	6	54
125	MIXED-CONVECTION FLOW IN A LID-DRIVEN SQUARE CAVITY FILLED WITH A NANOFLUID WITH VARIABLE PROPERTIES: EFFECT OF THE NANOPARTICLE DIAMETER AND OF THE POSITION OF A HOT OBSTACLE. <i>Heat Transfer Research</i> , <b>2014</b> , 45, 563-578	3.9	54
124	Non-Newtonian power-law behavior of TiO 2 /SAE 50 nano-lubricant: An experimental report and new correlation. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 232, 219-225	6	52
123	Rheological behavior characteristics of ZrO 2 -MWCNT/10w40 hybrid nano-lubricant affected by temperature, concentration, and shear rate: An experimental study and a neural network simulating. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 102, 160-170	3	52

122	An experimental study on thermophysical properties and heat transfer characteristics of low volume concentrations of Ag-water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 74, 91-97	5.8	52
121	An experimental determination and accurate prediction of dynamic viscosity of MWCNT(%40)-SiO2(%60)/5W50 nano-lubricant. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 259, 227-237	6	51
120	Experimental and theoretical investigation of thermal conductivity of ethylene glycol containing functionalized single walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 95, 71-77	3	50
119	Proposing a modified engine oil to reduce cold engine start damages and increase safety in high temperature operating conditions. <i>Powder Technology</i> , <b>2019</b> , 355, 251-263	5.2	50
118	Evaluation of Mixed Convection in Inclined Square Lid-Driven Cavity Filled with AL2O3/Water Nano-Fluid. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2013</b> , 7, 55-65	4.5	49
117	Using artificial neural network for investigating of concurrent effects of multi-walled carbon nanotubes and alumina nanoparticles on the viscosity of 10W-40 engine oil. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 510, 610-624	3.3	47
116	Prediction and optimization of thermophysical properties of stabilized Al 2 O 3 /antifreeze nanofluids using response surface methodology. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 261, 14-20	6	46
115	Convective heat transfer and pressure drop of aqua based TiO2 nanofluids at different diameters of nanoparticles: Data analysis and modeling with artificial neural network. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 97, 155-161	3	46
114	Evaluation of MWCNTs-ZnO/5W50 nanolubricant by design of an artificial neural network for predicting viscosity and its optimization. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 277, 921-931	6	42
113	Studying the Effect of Indentation on Flow Parameters and Slow Heat Transfer of Water-Silver Nano-Fluid with Varying Volume Fraction in a Rectangular Two-Dimensional Micro Channel. <i>Indian Journal of Science and Technology</i> , <b>2015</b> , 8,	1	42
112	Natural convection in T-shaped cavities filled with water-based suspensions of COOH-functionalized multi walled carbon nanotubes. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 121, 21-32	5.5	41
111	Experimental study on rheological behavior of monograde heavy-duty engine oil containing CNTs and oxide nanoparticles with focus on viscosity analysis. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 272, 319-329	<sub>9</sub> 6	40
110	Mixed convection in a lid-driven cavity with an inside hot obstacle filled by an Al2O3Water nanofluid. <i>Journal of Applied Mechanics and Technical Physics</i> , <b>2015</b> , 56, 443-453	0.6	38
109	MIXED CONVECTION FLOW AND HEAT TRANSFER IN A VENTILATED INCLINED CAVITY CONTAINING HOT OBSTACLES SUBJECTED TO A NANOFLUID. <i>Heat Transfer Research</i> , <b>2014</b> , 45, 309-33	8 <sup>3.9</sup>	33
108	An experimental investigation, sensitivity analysis and RSM analysis of MWCNT(10)-ZnO(90)/10W40 nanofluid viscosity. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 288, 111020	6	29
107	Application of conventional and hybrid nanofluids in different machining processes: A critical review. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 282, 102199	14.3	29
106	Mixed Convection Flow and Heat Transfer in an Up-Driven, Inclined, Square Enclosure Subjected to DWCNT-Water Nanofluid Containing Three Circular Heat Sources. <i>Current Nanoscience</i> , <b>2017</b> , 13, 311-32	. <del>1</del> .4	28
105	Development of a New Correlation and Post Processing of Heat Transfer Coefficient and Pressure Drop of Functionalized COOH MWCNT Nanofluid by Artificial Neural Network. <i>Current Nanoscience</i> , <b>2018</b> , 14, 104-112	1.4	27

104	A review on fuel cell types and the application of nanofluid in their cooling. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 140, 1633-1654	4.1	27
103	Mixed convection inside lid-driven cavities filled with nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 813-859	4.1	26
102	A comprehensive review on convective heat transfer of nanofluids in porous media: Energy-related and thermohydraulic characteristics. <i>Applied Thermal Engineering</i> , <b>2020</b> , 178, 115487	5.8	26
101	Experimental investigation of effective parameters on MWCNTIIiO2/SAE50 hybrid nanofluid viscosity. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 137, 743-757	4.1	24
100	Prediction of rheological behavior of MWCNTsBiO2/EGWater non-Newtonian hybrid nanofluid by designing new correlations and optimal artificial neural networks. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 132, 1029-1038	4.1	24
99	A novel experimental investigation on the effect of nanoparticles composition on the rheological behavior of nano-hybrids. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 269, 933-939	6	23
98	Combined Convection in a Lid-Driven Cavity with an Inside Obstacle Subjected to Al_2O_3-Water Nanofluid: Effect of Solid Volume Fraction and Nanofluid Variable Properties. <i>Acta Physica Polonica A</i> , <b>2013</b> , 124, 665-672	0.6	23
97	MIXED CONVECTION HEAT TRANSFER IN A DOUBLE LID-DRIVEN INCLINED SQUARE ENCLOSURE SUBJECTED TO Cu-WATER NANOFLUID WITH PARTICLE DIAMETER OF 90 nm. <i>Heat Transfer Research</i> , <b>2014</b> , 45, 75-95	3.9	22
96	3D numerical simulation of the enhanced oil recovery process using nanoscale colloidal solution flooding. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 301, 112094	6	21
95	Optimizing thermophysical properties of nanofluids using response surface methodology and particle swarm optimization in a non-dominated sorting genetic algorithm. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 103, 7-19	5.3	20
94	On the evaluation of the dynamic viscosity of non-Newtonian oil based nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 97-109	4.1	20
93	Thermal Conductivity Modeling of Aqueous CuO Nanofluids by Adaptive Neuro-Fuzzy Inference System (ANFIS) Using Experimental Data. <i>Periodica Polytechnica: Chemical Engineering</i> , <b>2018</b> , 62, 202	1.3	19
92	Prediction of Thermal Conductivity of Carbon Nanotube-EG Nanofluid Using Experimental Data by ANN. <i>Current Nanoscience</i> , <b>2017</b> , 13, 324-329	1.4	19
91	Nanofluid flooding in a randomized heterogeneous porous media and investigating the effect of capillary pressure and diffusion on oil recovery factor. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 320, 113646	6	19
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88	Nanofluid flooding for enhanced oil recovery in a heterogeneous two-dimensional anticline geometry. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 118, 104810	5.8	18
87	NUMERICAL SIMULATION OF MIXED CONVECTION WITHIN NANOFLUID-FILLED CAVITIES WITH TWO ADJACENT MOVING WALLS. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , <b>2013</b> , 37, 1073-1089	1.1	17

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86	An updated review on the nanofluids characteristics. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 138, 4091-4101	4.1	16
85	Effect of suspending optimized ratio of nano-additives MWCNT-Al2O3 on viscosity behavior of 5W50. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 285, 572-585	6	16
84	Pareto Optimal Design of Thermal Conductivity and Viscosity of NDCo3O4 Nanofluids by MOPSO and NSGA II Using Response Surface Methodology. <i>Current Nanoscience</i> , <b>2017</b> , 14, 62-70	1.4	16
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82	Effects of twisted tapes on thermal performance of tri-lobed tube: An applicable numerical study. <i>Applied Thermal Engineering</i> , <b>2018</b> , 144, 512-521	5.8	15
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78	Mandatory and Self-citation; Types, Reasons, Their Benefits and Disadvantages. <i>Science and Engineering Ethics</i> , <b>2015</b> , 21, 1581-5	3.1	13
77	Four objective optimization of aluminum nanoparticles/oil, focusing on thermo-physical properties optimization. <i>Powder Technology</i> , <b>2019</b> , 356, 832-846	5.2	13
76	Optimization of thermophysical properties of Al2O3/water-EG (80:20) nanofluids by NSGA-II. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 103, 264-272	3	13
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65	Mathematical and artificial brain structure-based modeling of heat conductivity of water based nanofluid enriched by double wall carbon nanotubes. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 540, 120766	3.3	8
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41 40	History and introduction 2020, 1-48  Comparative rheological study of hybrid nanofluids with different base fluids and the same composition ratio to select the best performance of nano-lubricants using response surface modeling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128543	5.1	2
	Comparative rheological study of hybrid nanofluids with different base fluids and the same composition ratio to select the best performance of nano-lubricants using response surface	5.1	
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40	Comparative rheological study of hybrid nanofluids with different base fluids and the same composition ratio to select the best performance of nano-lubricants using response surface modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 641, 128543  An experimental study and new correlations of viscosity of ethylene glycol-water based nanofluid at various temperatures and different solid concentrations. <i>Heat Transfer Research</i> , <b>2016</b> ,  Using a two-phase method for numerical natural convection simulation in a cavity containing	3.9	2
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40 39 38 37	Comparative rheological study of hybrid nanofluids with different base fluids and the same composition ratio to select the best performance of nano-lubricants using response surface modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 641, 128543  An experimental study and new correlations of viscosity of ethylene glycol-water based nanofluid at various temperatures and different solid concentrations. <i>Heat Transfer Research</i> , <b>2016</b> ,  Using a two-phase method for numerical natural convection simulation in a cavity containing multiwalled carbon nanotube/water. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 146, 757  Thermophysical optimization of ND/PG-water nanofluids by NSGA-II coupled with RSM and ANN. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.9 4.1 3.1	2 2 2
40 39 38 37 36	Comparative rheological study of hybrid nanofluids with different base fluids and the same composition ratio to select the best performance of nano-lubricants using response surface modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 641, 128543  An experimental study and new correlations of viscosity of ethylene glycol-water based nanofluid at various temperatures and different solid concentrations. <i>Heat Transfer Research</i> , <b>2016</b> ,  Using a two-phase method for numerical natural convection simulation in a cavity containing multiwalled carbon nanotube/water. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 146, 757  Thermophysical optimization of ND/PG-water nanofluids by NSGA-II coupled with RSM and ANN. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1  Optimization, modeling, and prediction of relative viscosity and relative thermal conductivity of AlN nano-powders suspended in EG. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.9 4.1 3.1	2 2 2 2

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30	Comparison of hybrid nano-lubricants containing MWCNT nanoparticles with different base oils and the same composition ratio to determine the optimal behavior of nano-lubricants based on experimental studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 128446	5.1	1
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28	Experimental study and modeling the SiO2-MWCNT (30:70)/SAE40 hybrid nano-lubricant flow based on the response surface method to identify the optimal lubrication conditions. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 130, 105771	5.8	1
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26	Viscosity modeling of nano-modified SAE50 engine oil using RSM and ANN methods. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 128, 105542	5.8	1
25	Mathematical monitoring of agglomeration effects on thermophysical properties of water-based nanofluids using MLP and RSM. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 146, 739	4.1	1
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20	An optimal feed-forward artificial neural network model and a new empirical correlation for prediction of the relative viscosity of AlO-engine oil nanofluid. <i>Scientific Reports</i> , <b>2021</b> , 11, 17072	4.9	1
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18	Using radial basis function network to model the heat transfer and pressure drop of water based nanofluids containing MgO nanoparticles. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101475	5.6	1
17	A comparative study of rheological behavior in hybrid nano-lubricants (HNLs) with the same composition/nanoparticle ratio characteristics and different base oils to select the most suitable lubricant in industrial applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> ,	5.1	1
16	Application of experimental and statistical methods in the study of rheology of MWCNT (25%)-TiO2 (75%)/ SAE40 HNF to identify and use in the lubrication industry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 643, 128710	5.1	1
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#### LIST OF PUBLICATIONS

14	Statistical and Intelligent Analysis of Viscosity behavior of MgO-MWCNT (25½5%)/10W40 Hybrid Nanolubricant Using Artificial Neural Network Modeling and Response Surface Methodology.  **Arabian Journal for Science and Engineering*,1**	2.5	О
13	Experimental investigation of thermo-physical properties of MgO-MWCNT (75\(\textit{D}\)5%)/10W40 as a new nano-lubricant. European Physical Journal Plus, <b>2021</b> , 136, 1	3.1	О
12	Numerical simulation of water production from humid air: Investigation of the Peltier effect (thermoelectric cooling system) on water production rate. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101473	5.6	O
11	Experimental study and sensitivity analysis of a new generation of special ternary hybrid nanofluids (THNFs) and investigation of factors affecting its thermal conductivity. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 101940	5.6	0
10	Laboratory study and statistical analysis of 10W40 base oil fluid with MWCNT (40%)-TiO2 (60%) nanoparticles to prepare a new hybrid nano-lubricant (HNL). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 129078	5.1	О
9	Investigation of thermophysical properties of MWCNT-MgO (50,50)/10 W40 hybrid nanofluid by focusing on the rheological behavior: Sensitivity analysis and price-performance investigation. <i>Powder Technology</i> , <b>2022</b> , 117472	5.2	0
8	Application of artificial intelligence and using optimal ANN to predict the dynamic viscosity of Hybrid nano-lubricant containing Zinc Oxide in Commercial oil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 647, 129115	5.1	О
7	Measurement of thermal conductivity of triple hybrid water based nanofluid containing MWCNT (10%) - Al2O3 (60%) - ZnO (30%) nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 647, 129083	5.1	O
6	Application of nanofluids in combustion engines with focusing on improving heat transfer process <b>2022</b> , 303-339		O
5	Investigating the Behavior of SiO2 (90%)-MWCNT (10%)/SAE50 Hybrid Nanofluid and Modeling its Viscosity. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	
4	Feasibility study of using MWCNT-TiO2 (25:75) in 5W50 as an optimizer for engine oils with the aim of reduce the cold start damages. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 129, 105678	5.8	
3	Preliminary feasibility study on using a nano-composition in enhanced oil recovery process: neural network modeling. <i>Neural Computing and Applications</i> , <b>2021</b> , 33, 10111-10127	4.8	
2	Comparative thermal analysis of an EG-based nanofluid containing DWCNTs. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	
1	A Comprehensive Correlation to Predict the Rheological Behavior of different Hybrid Nano-Lubricants: A Novel Statistical Analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 128886	5.1	