Amin Asadi

List of Publications by Citations

53 papers	2,817 citations	28 h-index	53 g-index
56 ext. papers	3,415 ext. citations	5.5 avg, IF	6.29 L-index

#	Paper	IF	Citations
53	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
52	Heat transfer efficiency of Al2O3-MWCNT/thermal oil hybrid nanofluid as a cooling fluid in thermal and energy management applications: An experimental and theoretical investigation. *International Journal of Heat and Mass Transfer*, **2018**, 117, 474-486	4.9	185
51	Dynamic viscosity of MWCNT/ZnO/engine oil hybrid nanofluid: An experimental investigation and new correlation in different temperatures and solid concentrations. *International Communications in Heat and Mass Transfer*, **2016**, 76, 41-45	5.8	139
50	An experimental study on stability and thermal conductivity of water/silica nanofluid: Eco-friendly production of nanoparticles. *Journal of Cleaner Production*, **2019**, 206, 1089-1100	10.3	129
49	Recent advances in preparation methods and thermophysical properties of oil-based nanofluids: A state-of-the-art review. *Powder Technology*, **2019**, 352, 209-226	5.2	126
48	Effect of sonication characteristics on stability, thermophysical properties, and heat transfer of nanofluids: A comprehensive review. *Ultrasonics Sonochemistry*, **2019**, 58, 104701	8.9	120
47	Applications of feedforward multilayer perceptron artificial neural networks and empirical correlation for prediction of thermal conductivity of Mg(OH) 2/EG using experimental data. *International Communications in Heat and Mass Transfer*, **2015**, 67, 46-50	5.8	110
46	The effect of temperature and solid concentration on dynamic viscosity of MWCNT/MgO (20/80)/SAE50 hybrid nano-lubricant and proposing a new correlation: An experimental study. *International Communications in Heat and Mass Transfer*, **2016**, 78, 48-53	5.8	106
45	The effect of surfactant and sonication time on the stability and thermal conductivity of water-based nanofluid containing Mg(OH)2 nanoparticles: An experimental investigation. *International Journal of Heat and Mass Transfer*, **2017**, 108, 191-198	4.9	100
44	An experimental and theoretical investigation on heat transfer capability of Mg (OH)2/MWCNT-engine oil hybrid nano-lubricant adopted as a coolant and lubricant fluid. *Applied Thermal Engineering*, **2018**, 129, 577-586	5.8	100
43	Thermal conductivity and viscosity of Mg(OH)2-ethylene glycol nanofluids. *Journal of Thermal Analysis and Calorimetry*, **2015**, 120, 1145-1149	4.1	96
42	An experimental investigation on productivity and performance of a new improved design portable asymmetrical solar still utilizing thermoelectric modules. *Energy Conversion and Management*, **2016**, 118, 55-62	10.6	96
41	An experimental investigation on the effects of ultrasonication time on stability and thermal conductivity of MWCNT-water nanofluid: Finding the optimum ultrasonication time. *Ultrasonics Sonochemistry*, **2019**, 58, 104639	8.9	85
40	An experimental and theoretical investigation on the effects of adding hybrid nanoparticles on heat transfer efficiency and pumping power of an oil-based nanofluid as a coolant fluid. *International Journal of Refrigeration*, **2018**, 89, 83-92	3.8	82
39	On the rheological properties of MWCNT-TiO2/oil hybrid nanofluid: An experimental investigation on the effects of shear rate, temperature, and solid concentration of nanoparticles. *Powder Technology*, **2019**, 355, 157-162	5.2	80
38	Heat transfer performance of two oil-based nanofluids containing ZnO and MgO nanoparticles; a comparative experimental investigation. *Powder Technology*, **2019**, 343, 296-308	5.2	80
37	Effects of magnetic field on the convective heat transfer rate and entropy generation of a nanofluid in an inclined square cavity equipped with a conductor fin: Considering the radiation effect. *International Journal of Heat and Mass Transfer*, **2019**, 133, 256-267	4.9	72

36	An experimental study on characterization, stability and dynamic viscosity of CuO-TiO2/water hybrid nanofluid. *Journal of Molecular Liquids*, **2020**, 307, 112987	6	70
35	Performance evaluation of two solar stills of different geometries: Tubular versus triangular: Experimental study, numerical simulation, and second law analysis. *Desalination*, **2018**, 443, 44-55	10.3	69
34	A guideline towards easing the decision-making process in selecting an effective nanofluid as a heat transfer fluid. *Energy Conversion and Management*, **2018**, 175, 1-10	10.6	68
33	Feasibility of ANFIS-PSO and ANFIS-GA Models in Predicting Thermophysical Properties of AlO-MWCNT/Oil Hybrid Nanofluid. *Materials*, **2019**, 12,	3.5	62
32	Numerical investigation of turbulent flow and heat transfer of nanofluid inside a wavy microchannel with different wavelengths. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 2365-2380	4.1	53
31	Investigation of a computer CPU heat sink under laminar forced convection using a structural stability method. *International Journal of Heat and Mass Transfer*, **2019**, 134, 1218-1226	4.9	50
30	On the thermal characteristics of a manifold microchannel heat sink subjected to nanofluid using two-phase flow simulation. *International Journal of Heat and Mass Transfer*, **2019**, 143, 118518	4.9	43
29	A numerical investigation on the effects of mixed convection of Ag-water nanofluid inside a sim-circular lid-driven cavity on the temperature of an electronic silicon chip. *Applied Thermal Engineering*, **2019**, 162, 114298	5.8	39
28	On the specific heat capacity estimation of metal oxide-based nanofluid for energy perspective A comprehensive assessment of data analysis techniques. *International Communications in Heat and Mass Transfer*, **2021**, 123, 105217	5.8	32
27	Solar intensity measurement using a thermoelectric module; experimental study and mathematical modeling. *Energy Conversion and Management*, **2016**, 129, 344-353	10.6	31
26	Thermal and Fluid Dynamics Performance of MWCNT-Water Nanofluid Based on Thermophysical Properties: An Experimental and Theoretical Study. *Scientific Reports*, **2020**, 10, 5185	4.9	29
25	On the natural convection of nanofluids in diverse shapes of enclosures: an exhaustive review. *Journal of Thermal Analysis and Calorimetry*, **2020**, 1	4.1	25
24	On the assessment of specific heat capacity of nanofluids for solar energy applications: Application of Gaussian process regression (GPR) approach. *Journal of Energy Storage*, **2021**, 33, 102067	7.8	24
23	On the heat transfer effectiveness and pumping power assessment of a diamond-water nanofluid based on thermophysical properties: An experimental study. *Powder Technology*, **2020**, 373, 397-410	5.2	20
22	On the Thermal Performance of a Fractal Microchannel Subjected to Water and Kerosene Carbon Nanotube Nanofluid. *Scientific Reports*, **2020**, 10, 7243	4.9	19
21	On the Thermal Conductivity Assessment of Oil-Based Hybrid Nanofluids using Extended Kalman Filter integrated with feed-forward neural network. *International Journal of Heat and Mass Transfer*, **2021**, 172, 121159	4.9	19
20	Feasibility of least-square support vector machine in predicting the effects of shear rate on the rheological properties and pumping power of MWCNT MgO/oil hybrid nanofluid based on experimental data. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1439-1454	4.1	19
19	Online-Based Approaches to Identify Real Journals and Publishers from Hijacked Ones. *Science and Engineering Ethics*, **2017**, 23, 305-308	3.1	14

18	A multi-stage stochastic energy management of responsive irrigation pumps in dynamic electricity markets. *Applied Energy*, **2020**, 265, 114804	10.7	14
17	Mandatory and Self-citation; Types, Reasons, Their Benefits and Disadvantages. *Science and Engineering Ethics*, **2015**, 21, 1581-5	3.1	13
16	Effects of ultrasonication time on stability, dynamic viscosity, and pumping power management of MWCNT-water nanofluid: an experimental study. *Scientific Reports*, **2020**, 10, 15182	4.9	12
15	Specific heat capacity of molten salt-based nanofluids in solar thermal applications: A paradigm of two modern ensemble machine learning methods. *Journal of Molecular Liquids*, **2021**, 335, 116434	6	12
14	Fake Journals: Their Features and Some Viable Ways to Distinguishing Them. *Science and Engineering Ethics*, **2015**, 21, 821-4	3.1	11
13	Predictability evaluation of support vector regression methods for thermophysical properties, heat transfer performance, and pumping power estimation of MWCNT/ZnO engine oil hybrid nanofluid. *Engineering With Computers*, **2020**, 37, 3813	4.5	11
12	On the optimization of a vertical twisted tape arrangement in a channel subjected to MWCNT water nanofluid by coupling numerical simulation and genetic algorithm. *Journal of Thermal Analysis and Calorimetry*, **2021**, 144, 189-201	4.1	11
11	Integration of Joint Power-Heat Flexibility of Oil Refinery Industries to Uncertain Energy Markets. *Energies*, **2020**, 13, 4874	3.1	9
10	An Experimental Study on the Performance Evaluation and Thermodynamic Modeling of a Thermoelectric Cooler Combined with Two Heatsinks. *Scientific Reports*, **2019**, 9, 20336	4.9	7
9	Estimating the density of hybrid nanofluids for thermal energy application: Application of non-parametric and evolutionary polynomial regression data-intelligent techniques. *Measurement: Journal of the International Measurement Confederation*, **2021**, 110524	4.6	6
8	A New Thermal Conductivity Model and Two-Phase Mixed Convection of CuO-Water Nanofluids in a Novel I-Shaped Porous Cavity Heated by Oriented Triangular Hot Block. *Nanomaterials*, **2020**, 10,	5.4	6
7	Thermo-mechanical contact problems and elastic behaviour of single and double sides functionally graded brake disks with temperature-dependent material properties. *Scientific Reports*, **2019**, 9, 15317	4.9	6
6	Fake/Bogus Conferences: Their Features and Some Subtle Ways to Differentiate Them from Real Ones. *Science and Engineering Ethics*, **2018**, 24, 779-784	3.1	4
5	Toward the accurate estimation of elliptical side orifice discharge coefficient applying two rigorous kernel-based data-intelligence paradigms. *Scientific Reports*, **2021**, 11, 19784	4.9	3
4	A hybrid solid oxide fuel cell-gas turbine fed by the motive steam of a multi-effects desalination-thermo vapor compressor system. *Energy Conversion and Management*, **2020**, 216, 112951	10.6	3
3	A general model for prediction of BaSO4 and SrSO4 solubility in aqueous electrolyte solutions over a wide range of temperatures and pressures. *Journal of Molecular Liquids*, **2020**, 299, 112142	6	3
2	Two-phase study of nanofluids mixed convection and entropy generation in an I-shaped porous cavity with triangular hot block and different aspect ratios. *Mathematical Methods in the Applied Sciences*, **2020**,	2.3	1
1	Effects of constructal theory on thermal management of a power electronic system. *Scientific Reports*, **2020**, 10, 21436	4.9	1