Rad Sadri

List of Publications by Year in Descending Order

29 papers	1,489 citations	21 h-index	30 g-index
30 ext. papers	1,728 ext. citations	6.1 avg, IF	4.53 L-index

#	Paper	IF	Citations
29	A facile, green fabrication of aqueous nanofluids containing hydrophilic functionalized carbon nanotubes toward improving heat transfer in a closed horizontal flow passage. *Powder Technology*, **2022**, 117451	5.2	0
28	Controlled physical properties and growth mechanism of manganese silicide nanorods. *Journal of Alloys and Compounds*, **2021**, 851, 156693	5.7	4
27	Exploration of 2D TiC MXene for all solution processed piezoelectric nanogenerator applications. *Scientific Reports*, **2021**, 11, 17432	4.9	2
26	A review of heating/cooling processes using nanomaterials suspended in refrigerants and lubricants. *International Journal of Heat and Mass Transfer*, **2020**, 153, 119611	4.9	45
25	A comprehensive review on nanofluid operated solar flat plate collectors. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 1309-1343	4.1	50
24	An experimental investigation on the performance of a flat-plate solar collector using eco-friendly treated graphene nanoplatelets water nanofluids. *Journal of Thermal Analysis and Calorimetry*, **2019**, 138, 609-621	4.1	50
23	A facile, bio-based, novel approach for synthesis of covalently functionalized graphene nanoplatelet nano-coolants toward improved thermo-physical and heat transfer properties. *Journal of Colloid and Interface Science*, **2018**, 509, 140-152	9.3	55
22	Effect of various refining processes for Kenaf Bast non-wood pulp fibers suspensions on heat transfer coefficient in circular pipe heat exchanger. *Heat and Mass Transfer*, **2018**, 54, 875-882	2.2	0
21	Numerical study of turbulent heat transfer of nanofluids containing eco-friendly treated carbon nanotubes through a concentric annular heat exchanger. *International Journal of Heat and Mass Transfer*, **2018**, 127, 403-412	4.9	25
20	CFD modeling of turbulent convection heat transfer of nanofluids containing green functionalized graphene nanoplatelets flowing in a horizontal tube: Comparison with experimental data. *Journal of Molecular Liquids*, **2018**, 269, 152-159	6	26
19	A novel, eco-friendly technique for covalent functionalization of graphene nanoplatelets and the potential of their nanofluids for heat transfer applications. *Chemical Physics Letters*, **2017**, 675, 92-97	2.5	57
18	Experimental Study on Heat Transfer and Thermo-Physical Properties of Covalently Functionalized Carbon Nanotubes Nanofluids in an Annular Heat Exchanger: A Green and Novel Synthesis. *Energy & Fuels*, **2017**, 31, 5635-5644	4.1	24
17	A bio-based, facile approach for the preparation of covalently functionalized carbon nanotubes aqueous suspensions and their potential as heat transfer fluids. *Journal of Colloid and Interface Science*, **2017**, 504, 115-123	9.3	87
16	Study of environmentally friendly and facile functionalization of graphene nanoplatelet and its application in convective heat transfer. *Energy Conversion and Management*, **2017**, 150, 26-36	10.6	37
15	Experimental study on thermo-physical and rheological properties of stable and green reduced graphene oxide nanofluids: Hydrothermal assisted technique. *Journal of Dispersion Science and Technology*, **2017**, 38, 1302-1310	1.5	29
14	Investigation on the Use of Graphene Oxide as Novel Surfactant for Stabilizing Carbon Based Materials. *Journal of Dispersion Science and Technology*, **2016**, 37, 1395-1407	1.5	14
13	Nanofluid based on activated hybrid of biomass carbon/graphene oxide: Synthesis, thermo-physical and electrical properties. *International Communications in Heat and Mass Transfer*, **2016**, 72, 10-15	5.8	62

12	Exploration of the environmentally benign and highly effective approach for improving carbon nanotube homogeneity in aqueous system. *Journal of Thermal Analysis and Calorimetry*, **2016**, 124, 815-825	4.1	5
11	A comprehensive review of thermo-physical properties and convective heat transfer to nanofluids. *Energy*, **2015**, 89, 1065-1086	7.9	184
10	Synthesis of ethylene glycol-treated Graphene Nanoplatelets with one-pot, microwave-assisted functionalization for use as a high performance engine coolant. *Energy Conversion and Management* , **2015**, 101, 767-777	10.6	73
9	Laminar convective heat transfer of hexylamine-treated MWCNTs-based turbine oil nanofluid. *Energy Conversion and Management*, **2015**, 105, 355-367	10.6	60
8	A comprehensive review of milk fouling on heated surfaces. *Critical Reviews in Food Science and Nutrition*, **2015**, 55, 1724-43	11.5	20
7	Synthesis of polyethylene glycol-functionalized multi-walled carbon nanotubes with a microwave-assisted approach for improved heat dissipation. *RSC Advances*, **2015**, 5, 35425-35434	3.7	41
6	Experimental investigation on the use of highly charged nanoparticles to improve the stability of weakly charged colloidal system. *Journal of Colloid and Interface Science*, **2015**, 454, 245-55	9.3	18
5	Performance dependence of thermosyphon on the functionalization approaches: An experimental study on thermo-physical properties of graphene nanoplatelet-based water nanofluids. *Energy Conversion and Management*, **2015**, 92, 322-330	10.6	112
4	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
3	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
2	An experimental study on thermal conductivity and viscosity of nanofluids containing carbon nanotubes. *Nanoscale Research Letters*, **2014**, 9, 151	5	151
1	Numerical Study of Entropy Generation in a Flowing Nanofluid Used in Micro- and Minichannels. *Entropy*, **2013**, 15, 144-155	2.8	57