

S M Sohel Murshed

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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.

76 papers	4,931 citations	27 h-index	70 g-index
95 ext. papers	5,752 ext. citations	4.7 avg, IF	6.33 L-index

#	Paper	IF	Citations
76	Enhanced thermal conductivity of TiO ₂ /water based nanofluids. <i>International Journal of Thermal Sciences</i> , 2005 , 44, 367-373	4.1	970
75	Investigations of thermal conductivity and viscosity of nanofluids. <i>International Journal of Thermal Sciences</i> , 2008 , 47, 560-568	4.1	768
74	Thermophysical and electrokinetic properties of nanofluids [A critical review. <i>Applied Thermal Engineering</i> , 2008 , 28, 2109-2125	5.8	460
73	A critical review of traditional and emerging techniques and fluids for electronics cooling. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 78, 821-833	16.2	271
72	A model for the thermal conductivity of nanofluids [the effect of interfacial layer. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 245-254	2.3	264
71	A state of the art review on viscosity of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 76, 1134-1152	16.2	236
70	A review of boiling and convective heat transfer with nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 2342-2354	16.2	192
69	A combined model for the effective thermal conductivity of nanofluids. <i>Applied Thermal Engineering</i> , 2009 , 29, 2477-2483	5.8	172
68	Superior thermal features of carbon nanotubes-based nanofluids [A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 37, 155-167	16.2	161
67	Temperature dependence of interfacial properties and viscosity of nanofluids for droplet-based microfluidics. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 085502	3	115
66	Enhanced thermal conductivity and specific heat capacity of carbon nanotubes ionanofluids. <i>International Journal of Thermal Sciences</i> , 2012 , 62, 34-39	4.1	96
65	A review on development of ionic liquid based nanofluids and their heat transfer behavior. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 584-599	16.2	95
64	Droplet formation and stability of flows in a microfluidic T-junction. <i>Applied Physics Letters</i> , 2009 , 94, 164107	3.4	90
63	Current trends in surface tension and wetting behavior of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 94, 931-944	16.2	85
62	Simultaneous Measurement of Thermal Conductivity, Thermal Diffusivity, and Specific Heat of Nanofluids. <i>Heat Transfer Engineering</i> , 2012 , 33, 722-731	1.7	74
61	Determination of the effective thermal diffusivity of nanofluids by the double hot-wire technique. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 5316-5322	3	61
60	Conduction and convection heat transfer characteristics of ethylene glycol based nanofluids [A review. <i>Applied Energy</i> , 2016 , 184, 681-695	10.7	60

59	Thermal Conductivity of [C4mim][(CF3SO2)2N] and [C2mim][EtSO4] and Their IoNanofluids with Carbon Nanotubes: Experiment and Theory. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 467-476	2.8	57
58	Determination of effective specific heat of nanofluids. <i>Journal of Experimental Nanoscience</i> , 2011 , 6, 539-546	1.9	56
57	Thermally mediated control of liquid microdroplets at a bifurcation. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 065503	3	53
56	Thermally controlled droplet formation in flow focusing geometry: formation regimes and effect of nanoparticle suspension. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 165501	3	50
55	Microdroplet formation of water and nanofluids in heat-induced microfluidic T-junction. <i>Microfluidics and Nanofluidics</i> , 2009 , 6, 253-259	2.8	48
54	Thermal Conductivity of Ionic Liquids and IoNanofluids and Their Feasibility as Heat Transfer Fluids. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6516-6529	3.9	39
53	A MODEL FOR PREDICTING THE EFFECTIVE THERMAL CONDUCTIVITY OF NANOPARTICLE-FLUID SUSPENSIONS. <i>International Journal of Nanoscience</i> , 2006 , 05, 23-33	0.6	36
52	Experimental Investigation on Stability, Viscosity, and Electrical Conductivity of Water-Based Hybrid Nanofluid of MWCNT-FeO. <i>Nanomaterials</i> , 2021 , 11,	5.4	34
51	CONVECTIVE HEAT TRANSFER CHARACTERISTICS OF AQUEOUS TiO2 NANOFLUID UNDER LAMINAR FLOW CONDITIONS. <i>International Journal of Nanoscience</i> , 2008 , 07, 325-331	0.6	30
50	Nanofluids stability effects on the thermal performance of heat pipes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 1597-1614	4.1	28
49	Correction and comment on Thermal conductance of nanofluids: is the controversy over? <i>Journal of Nanoparticle Research</i> , 2009 , 11, 511-512	2.3	24
48	Dispersion and thermal conductivity of TiO2/water nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 109-114	4.1	23
47	Effect of Al2O3 nanoparticles on laminar, transient and turbulent flow of isopropyl alcohol. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 130, 1032-1044	4.9	21
46	Effect of Surfactant and Nanoparticle Clustering on Thermal Conductivity of Aqueous Nanofluids. <i>Journal of Nanofluids</i> , 2012 , 1, 175-179	2.2	19
45	An Experimental Study of Surface Tension-Dependent Pool Boiling Characteristics of Carbon Nanotubes-Nanofluids 2009 ,		18
44	A review of the thermophysical properties and potential of ionic liquids for thermal applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15861-15879	13	17
43	Spreading characteristics of nanofluid droplets impacting onto a solid surface. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3427-33	1.3	14
42	Understanding Stability, Measurements, and Mechanisms of Thermal Conductivity of Nanofluids. <i>Journal of Nanofluids</i> , 2017 , 6, 804-811	2.2	14

41	Experimental Research and Development on the Natural Convection of Suspensions of Nanoparticles-A Comprehensive Review. <i>Nanomaterials</i> , 2020 , 10,	5.4	14
40	Nanofluids: Key parameters to enhance thermal conductivity and its applications. <i>Applied Thermal Engineering</i> , 2022 , 207, 118202	5.8	12
39	An experimental investigation of bubble nucleation of a refrigerant in pressurized boiling flows. <i>Energy</i> , 2010 , 35, 5143-5150	7.9	11
38	Investigations of Viscosity of Silicone Oil-Based Semiconductor Nanofluids. <i>Journal of Nanofluids</i> , 2013 , 2, 261-266	2.2	11
37	Forced convection heat transfer of non-Newtonian MWCNTs nanofluids in microchannels under laminar flow. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 127, 105495	5.8	11
36	Preparation and Second-Harmonic Generation Properties of a Self-Assembled Multilayer Film Based on Nanoporous Isopolyoxomolybdate and Bipolar Hemicyanine. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1355-1358	1.3	10
35	Ionic Liquids-Based Nanocolloids-A Review of Progress and Prospects in Convective Heat Transfer Applications. <i>Nanomaterials</i> , 2021 , 11,	5.4	10
34	Thermal Properties of Ionic Liquids and Ionanofluids 2011 ,		9
33	Current research and future applications of nano- and ionano-fluids. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012117	0.3	8
32	Predicting the Thermal Conductivity of Nanofluids Effect of Brownian Motion of Nanoparticles. <i>Journal of Nanofluids</i> , 2012 , 1, 180-185	2.2	8
31	Geometry modification of solar collector to improve performance of solar chimneys. <i>Renewable Energy</i> , 2020 , 162, 160-170	8.1	7
30	A new approach for predicting the pool boiling heat transfer coefficient of refrigerant R141b and its mixtures with surfactant and nanoparticles using experimental data. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 2327-2339	4.1	6
29	Introductory Chapter: Electronics Cooling An Overview 2016 ,		6
28	Synthesis, Properties and Physical Applications of Ionanofluids 2013 ,		5
27	Boiling heat transfer and droplet spreading of nanofluids. <i>Recent Patents on Nanotechnology</i> , 2013 , 7, 216-23	1.2	5
26	Life Time Expectancy Prediction and Ageing Process of Heat Pipes Using Nanofluids. <i>Heat Transfer Engineering</i> , 2020 , 1-10	1.7	5
25	An experimental investigation of heat of vaporization of nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 645-657	4.1	4
24	Ionanofluids: New Heat Transfer Fluids for Green Processes Development 2012 , 233-249		4

23	Thermal Conductivity of Nanoparticle Suspensions (Nanofluids)		4
22	Ultrasonically tuned surface tension and nano-film formation of aqueous ZnO nanofluids. <i>Ultrasonics Sonochemistry</i> , 2021 , 72, 105424	8.9	4
21	IoNanofluids: Innovative Agents for Sustainable Development 2017 , 911-936		3
20	Nanofluids as Advanced Coolants 2012 , 397-415		3
19	A comprehensive review of thermophysical properties and prospects of ionanocolloids in thermal energy applications. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 151, 111593	16.2	3
18	Nanofluids in compact heat exchangers for thermal applications: A State-of-the-art review. <i>Thermal Science and Engineering Progress</i> , 2022 , 30, 101276	3.6	3
17	Characterization of Temperature Dependence of Interfacial Tension and Viscosity of Nanofluid 2008 ,		2
16	Drop-on-demand assessment of microdrops of dilute ZnO-water nanofluids. <i>Physics of Fluids</i> , 2021 , 33, 012013	4.4	2
15	Morphology and thermophysical properties of non-aqueous titania nanofluids. <i>Heat and Mass Transfer</i> , 2018 , 54, 2645-2650	2.2	1
14	Forced Convective Heat Transfer of Nanofluids in Minichannels 2011 ,		1
13	A response to "Comments on the effect of liquid layering on the thermal conductivity of nanofluids" E. Doroodchi, T. M. Evans & B. Moghtaderi, 2009. J Nanopart Res 11(6):1501-1507. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2007-2010	2.3	1
12	Investigation of Temperature-Dependent Droplet Formation of Nanofluids in Microfluidic T-Junction 2008 ,		1
11	Effective Thermal Conductivity and Viscosity of Nanofluids 2005 , 35		1
10	Forced convection heat transfer characteristics of Al ₂ O ₃ nanofluids in a minichannel - an experimental study. <i>Journal of Physics: Conference Series</i> , 2021 , 2116, 012056	0.3	1
9	Performance evaluation of convective heat transfer and laminar flow of non-Newtonian MWCNTs in a circular tube. <i>Thermal Science and Engineering Progress</i> , 2021 , 25, 101029	3.6	1
8	Numerical approach for fluids flow and thermal convection in microchannels. <i>Journal of Physics: Conference Series</i> , 2021 , 2116, 012049	0.3	0
7	Boiling and Convective Heat Transfer Characteristics of Nanofluids. <i>Applied Mechanics and Materials</i> , 2011 , 110-116, 393-399	0.3	
6	Stability Evaluation, Measurements, and Presentations of Convective Heat Transfer Characteristics of Nanofluids 2020 , 161-188		

- 5 An Insight of Ionanofluids Flow and Heat Transfer Behavior for Solar Energy Applications **2019**, 239-251
- 4 A note for special issue papers from the First International Conference on Nanofluids 2019. *Journal of Thermal Analysis and Calorimetry*, **2021**, 146, 521-524 4.1
- 3 Characterization of electrokinetic properties of nanofluids. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 5966-71 1.3
- 2 Evaluation of stability and viscosity of [C2mim][DCA] based ionanocolloids. *Journal of Physics: Conference Series*, **2021**, 2116, 012068 0.3
- 1 Critical evaluation of nanofluids and ionanocolloids as heat transfer fluids. *Journal of Physics: Conference Series*, **2021**, 2116, 012053 0.3