

# Mehdi Shanbedi

## List of Publications by Year in descending order

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56  
papers

2,829  
citations

126907

33  
h-index

168389

53  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methylene Blue Dye Removal from Aqueous Media Using Activated Carbon Prepared by Lotus Leaves: Kinetic, Equilibrium and Thermodynamic Study. <i>Acta Chimica Slovenica</i> , 2021, 68, 363-373.	0.6	6
2	The thermophysical properties and the stability of nanofluids containing carboxyl-functionalized graphene nano-platelets and multi-walled carbon nanotubes. <i>International Communications in Heat and Mass Transfer</i> , 2019, 108, 104302.	5.6	30
3	Comparison between Nucleate Pool Boiling Heat Transfer of Graphene Nanoplatelet- and Carbon Nanotube- Based Aqueous Nanofluids. <i>ACS Omega</i> , 2019, 4, 19183-19192.	3.5	11
4	Natural Convection from the Outside Surface of an Inclined Cylinder in Pure Liquids at Low Flux. <i>ACS Omega</i> , 2019, 4, 7038-7046.	3.5	14
5	Experimental investigation of the effect of different nanofluids on the thermal performance of a wet cooling tower using a new method for equalization of ambient conditions. <i>Energy Conversion and Management</i> , 2018, 158, 23-35.	9.2	35
6	A review on liquid-phase exfoliation for scalable production of pure graphene, wrinkled, crumpled and functionalized graphene and challenges. <i>FlatChem</i> , 2018, 8, 40-71.	5.6	154
7	Effect of magnetic field on thermo-physical and hydrodynamic properties of different metals-decorated multi-walled carbon nanotubes-based water coolants in a closed conduit. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 1089-1106.	3.6	17
8	Water-based graphene quantum dots dispersion as a high-performance long-term stable nanofluid for two-phased closed thermosyphons. <i>International Communications in Heat and Mass Transfer</i> , 2018, 95, 147-154.	5.6	24
9	Experimental investigation of thermal properties of cutting fluid using soluble oil-based TiO <sub>2</sub> nanofluid. <i>Powder Technology</i> , 2017, 310, 213-220.	4.2	37
10	Influence of soluble oil-based TiO <sub>2</sub> nanofluid on heat transfer performance of cutting fluid. <i>Tribology International</i> , 2017, 112, 147-154.	5.9	31
11	Thermophysical and rheological properties of water-based graphene quantum dots nanofluids. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 76, 132-140.	5.3	45
12	Comprehensive heat transfer correlation for water/ethylene glycol-based graphene (nitrogen-doped) system (ANFIS). <i>Heat and Mass Transfer</i> , 2017, 53, 3073-3083.	2.1	16
13	Facile, environmentally friendly, cost effective and scalable production of few-layered graphene. <i>Chemical Engineering Journal</i> , 2017, 326, 1105-1115.	12.7	35
14	Transformer oils-based graphene quantum dots nanofluid as a new generation of highly conductive and stable coolant. <i>International Communications in Heat and Mass Transfer</i> , 2017, 83, 40-47.	5.6	44
15	Functionalization and exfoliation of graphite into mono layer graphene for improved heat dissipation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 71, 480-493.	5.3	24
16	Synthesis, stability, and thermophysical properties of aqueous colloidal dispersions of multi-walled carbon nanotubes treated with beta-alanine. <i>International Communications in Heat and Mass Transfer</i> , 2017, 89, 7-17.	5.6	21
17	Hydrodynamic and thermal performance prediction of functionalized MWNT-based water nanofluids under the laminar flow regime using the adaptive neuro-fuzzy inference system. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 70, 103-116.	2.1	12
18	Experimental investigation of filled bed effect on the thermal performance of a wet cooling tower by using ZnO/water nanofluid. <i>Energy Conversion and Management</i> , 2016, 127, 199-207.	9.2	40

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19	Microbial toxicity of different functional groups-treated carbon nanotubes. , 2016, , 33-70.		7
20	Heat transfer enhancement of water-based highly crumpled few-layer graphene nanofluids. RSC Advances, 2016, 6, 105508-105527.	3.6	28
21	Mass production of highly-porous graphene for high-performance supercapacitors. Scientific Reports, 2016, 6, 32686.	3.3	58
22	Synthesis of water-soluble Fe-decorated multi-walled carbon nanotubes: A study on thermo-physical properties of ferromagnetic nanofluid. Journal of the Taiwan Institute of Chemical Engineers, 2016, 60, 547-554.	5.3	45
23	Toward improved engine performance with crumpled nitrogen-doped graphene based waterâ€“ethylene glycol coolant. Chemical Engineering Journal, 2016, 289, 583-595.	12.7	76
24	The Specific Heat Capacity, Effective Thermal Conductivity, Density, and Viscosity of Coolants Containing Carboxylic Acid Functionalized Multi-Walled Carbon Nanotubes. Journal of Dispersion Science and Technology, 2016, 37, 949-955.	2.4	14
25	Convective heat transfer and friction factor of aqueous Fe <sub>3</sub> O <sub>4</sub> nanofluid flow under laminar regime. Journal of Thermal Analysis and Calorimetry, 2016, 124, 827-838.	3.6	46
26	Experimental investigation of pressure drop and heat transfer performance of amino acid-functionalized MWCNT in the circular tube. Journal of Thermal Analysis and Calorimetry, 2016, 124, 205-214.	3.6	25
27	Determination of the Heat Transfer Coefficient of Metal Oxide Based Water Nanofluids in a Laminar Flow Regime Using an Adaptive Neuro-Fuzzy Inference System. Journal of Dispersion Science and Technology, 2016, 37, 1277-1286.	2.4	5
28	Heat transfer performance of two-phase closed thermosyphon with oxidized CNT/water nanofluids. Heat and Mass Transfer, 2016, 52, 85-93.	2.1	33
29	Microwave-Assisted Synthesis of Highly-Crumpled, Few-Layered Graphene and Nitrogen-Doped Graphene for Use as High-Performance Electrodes in Capacitive Deionization. Scientific Reports, 2015, 5, 17503.	3.3	62
30	Synthesis of polyethylene glycol-functionalized multi-walled carbon nanotubes with a microwave-assisted approach for improved heat dissipation. RSC Advances, 2015, 5, 35425-35434.	3.6	46
31	Transformer oil based multi-walled carbon nanotubeâ€“hexylamine coolant with optimized electrical, thermal and rheological enhancements. RSC Advances, 2015, 5, 107222-107236.	3.6	64
32	<scp><i>In vitro</i> and <i>in vivo</i> study of hazardous effects of Ag nanoparticles and Arginineâ€“treated multi walled carbon nanotubes on blood cells: <scp>A</scp>pplication in hemodialysis membranes. Journal of Biomedical Materials Research - Part A, 2015, 103, 2959-2965.	4.0	38
33	Experimental investigation of stability and thermophysical properties of carbon nanotubes suspension in the presence of different surfactants. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1193-1201.	3.6	70
34	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.	9.2	123
35	Statistical Analysis of Laminar Convective Heat Transfer of MWCNT-Deionized Water Nanofluid Using the Response Surface Methodology. Numerical Heat Transfer; Part A: Applications, 2015, 68, 454-469.	2.1	23
36	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.	9.2	83

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37	Microwave-assisted direct coupling of graphene nanoplatelets with poly ethylene glycol and 4-phenylazophenol molecules for preparing stable-colloidal system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 487, 131-141.	4.7	23
38	Cadmium ion sorption from aqueous solutions by high surface area ethylenediaminetetraacetic acid- and diethylene triamine pentaacetic acid-treated carbon nanotubes. <i>RSC Advances</i> , 2015, 5, 71144-71152.	3.6	25
39	Synthesis of aspartic acid-treated multi-walled carbon nanotubes based water coolant and experimental investigation of thermal and hydrodynamic properties in circular tube. <i>Energy Conversion and Management</i> , 2015, 105, 1366-1376.	9.2	59
40	Laminar convective heat transfer of hexylamine-treated MWCNTs-based turbine oil nanofluid. <i>Energy Conversion and Management</i> , 2015, 105, 355-367.	9.2	69
41	Thermal Performance Prediction of Two-Phase Closed Thermosyphon Using Adaptive Neuro-Fuzzy Inference System. <i>Heat Transfer Engineering</i> , 2015, 36, 315-324.	1.9	31
42	Improvement in Heat Transfer of a Two-Phased Closed Thermosyphon Using Silver-Decorated MWCNT/Water. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 1086-1096.	2.4	52
43	Heat transfer and rheological properties of transformer oil-oxidized MWCNT nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 1451-1460.	3.6	114
44	Pool boiling heat transfer of CNT/water nanofluids. <i>Applied Thermal Engineering</i> , 2014, 71, 450-459.	6.0	114
45	Optimization of the Thermal Efficiency of a Two-Phase Closed Thermosyphon using Active Learning on the Human Algorithm Interaction. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 947-962.	2.1	27
46	Experimental Study of Heat Transfer of a Car Radiator with CuO/Ethylene Glycol-Water as a Coolant. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 677-684.	2.4	114
47	Microbial toxicity of ethanolamines' Multiwalled carbon nanotubes. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 1774-1781.	4.0	64
48	Influence of different amino acid groups on the free radical scavenging capability of multi walled carbon nanotubes. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 2219-2228.	4.0	55
49	Prediction of temperature performance of a two-phase closed thermosyphon using Artificial Neural Network. <i>Heat and Mass Transfer</i> , 2013, 49, 65-73.	2.1	38
50	The Effect of Multi-Walled Carbon Nanotube/Water Nanofluid on Thermal Performance of a Two-Phase Closed Thermosyphon. <i>Experimental Heat Transfer</i> , 2013, 26, 26-40.	3.2	71
51	Experimental Analysis of Thermal Performance in a Two-Phase Closed Thermosiphon Using Graphene/Water Nanofluid. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 10015-10021.	3.7	51
52	Studying of antifungal activity of functionalized multiwalled carbon nanotubes by microwave-assisted technique. <i>Surface and Interface Analysis</i> , 2013, 45, 751-755.	1.8	30
53	Investigation of Heat-Transfer Characterization of EDA-MWCNT/DI-Water Nanofluid in a Two-Phase Closed Thermosyphon. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 1423-1428.	3.7	82
54	Highly Dispersed Multiwalled Carbon Nanotubes Decorated with Ag Nanoparticles in Water and Experimental Investigation of the Thermophysical Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3369-3375.	3.1	121

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55	Enhanced antibacterial activity of amino acids-functionalized multi walled carbon nanotubes by a simple method. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 92, 196-202.	5.0	167
56	Efficient method for functionalization of carbon nanotubes by lysine and improved antimicrobial activity and water-dispersion. <i>Materials Letters</i> , 2012, 72, 153-156.	2.6	80