

Mehdi Shanbedi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2902933/publications.pdf>

Version: 2024-02-01

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	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
2	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
3	Performance dependence of thermosyphon on the functionalization approaches: An experimental study on thermo-physical properties of graphene nanoplatelet-based water nanofluids. <i>Energy Conversion and Management</i> , 2015, 92, 322-330.	9.2	123
4	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
5	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
6	Pool boiling heat transfer of CNT/water nanofluids. <i>Applied Thermal Engineering</i> , 2014, 71, 450-459.	6.0	114
7	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
8	Synthesis of ethylene glycol-treated Graphene Nanoplatelets with one-pot, microwave-assisted functionalization for use as a high performance engine coolant. <i>Energy Conversion and Management</i> , 2015, 101, 767-777.	9.2	83
9	Investigation of Heat-Transfer Characterization of EDA-MWCNT/DI-Water Nanofluid in a Two-Phase Closed Thermosyphon. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1423-1428.	3.7	82
10	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
11	Toward improved engine performance with crumpled nitrogen-doped graphene based water-ethylene glycol coolant. <i>Chemical Engineering Journal</i> , 2016, 289, 583-595.	12.7	76
12	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
13	Experimental investigation of stability and thermophysical properties of carbon nanotubes suspension in the presence of different surfactants. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1193-1201.	3.6	70
14	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
15	Microbial toxicity of ethanalamines-Multiwalled carbon nanotubes. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 1774-1781.	4.0	64
16	Transformer oil based multi-walled carbon nanotube-hexylamine coolant with optimized electrical, thermal and rheological enhancements. <i>RSC Advances</i> , 2015, 5, 107222-107236.	3.6	64
17	Microwave-Assisted Synthesis of Highly-Crumpled, Few-Layered Graphene and Nitrogen-Doped Graphene for Use as High-Performance Electrodes in Capacitive Deionization. <i>Scientific Reports</i> , 2015, 5, 17503.	3.3	62
18	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

#	ARTICLE	IF	CITATIONS
19	Mass production of highly-porous graphene for high-performance supercapacitors. Scientific Reports, 2016, 6, 32686.	3.3	58
20	Influence of different amino acid groups on the free radical scavenging capability of multi walled carbon nanotubes. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2219-2228.	4.0	55
21	Improvement in Heat Transfer of a Two-Phased Closed Thermosyphon Using Silver-Decorated MWCNT/Water. Journal of Dispersion Science and Technology, 2014, 35, 1086-1096.	2.4	52
22	Experimental Analysis of Thermal Performance in a Two-Phase Closed Thermosiphon Using Graphene/Water Nanofluid. Industrial & Engineering Chemistry Research, 2013, 52, 10015-10021.	3.7	51
23	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
24	Convective heat transfer and friction factor of aqueous Fe ₃ O ₄ nanofluid flow under laminar regime. Journal of Thermal Analysis and Calorimetry, 2016, 124, 827-838.	3.6	46
25	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
26	Thermophysical and rheological properties of water-based graphene quantum dots nanofluids. Journal of the Taiwan Institute of Chemical Engineers, 2017, 76, 132-140.	5.3	45
27	Transformer oils-based graphene quantum dots nanofluid as a new generation of highly conductive and stable coolant. International Communications in Heat and Mass Transfer, 2017, 83, 40-47.	5.6	44
28	Experimental investigation of filled bed effect on the thermal performance of a wet cooling tower by using ZnO/water nanofluid. Energy Conversion and Management, 2016, 127, 199-207.	9.2	40
29	Prediction of temperature performance of a two-phase closed thermosyphon using Artificial Neural Network. Heat and Mass Transfer, 2013, 49, 65-73.	2.1	38
30	<i>in vitro</i> and <i>in vivo</i> study of hazardous effects of Ag nanoparticles and Arginine-treated multi walled carbon nanotubes on blood cells: Application in hemodialysis membranes. Journal of Biomedical Materials Research - Part A, 2015, 103, 2959-2965.	4.0	38
31	Experimental investigation of thermal properties of cutting fluid using soluble oil-based TiO ₂ nanofluid. Powder Technology, 2017, 310, 213-220.	4.2	37
32	Facile, environmentally friendly, cost effective and scalable production of few-layered graphene. Chemical Engineering Journal, 2017, 326, 1105-1115.	12.7	35
33	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. Energy Conversion and Management, 2018, 158, 23-35.	9.2	35
34	Heat transfer performance of two-phase closed thermosyphon with oxidized CNT/water nanofluids. Heat and Mass Transfer, 2016, 52, 85-93.	2.1	33
35	Thermal Performance Prediction of Two-Phase Closed Thermosyphon Using Adaptive Neuro-Fuzzy Inference System. Heat Transfer Engineering, 2015, 36, 315-324.	1.9	31
36	Influence of soluble oil-based TiO ₂ nanofluid on heat transfer performance of cutting fluid. Tribology International, 2017, 112, 147-154.	5.9	31

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Heat transfer enhancement of water-based highly crumpled few-layer graphene nanofluids. <i>RSC Advances</i> , 2016, 6, 105508-105527.	3.6	28
40	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
41	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
42	Experimental investigation of pressure drop and heat transfer performance of amino acid-functionalized MWCNT in the circular tube. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 205-214.	3.6	25
43	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
44	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
45	Statistical Analysis of Laminar Convective Heat Transfer of MWCNT-Deionized Water Nanofluid Using the Response Surface Methodology. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 454-469.	2.1	23
46	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
47	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
48	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
49	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
50	The Specific Heat Capacity, Effective Thermal Conductivity, Density, and Viscosity of Coolants Containing Carboxylic Acid Functionalized Multi-Walled Carbon Nanotubes. <i>Journal of Dispersion Science and Technology</i> , 2016, 37, 949-955.	2.4	14
51	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
52	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
53	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
54	Microbial toxicity of different functional groups-treated carbon nanotubes. , 2016, , 33-70.		7

#	ARTICLE	IF	CITATIONS
55	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
56	Determination of the Heat Transfer Coefficient of Metal Oxide Based Water Nanofluids in a Laminar Flow Regime Using an Adaptive Neuro-Fuzzy Inference System. <i>Journal of Dispersion Science and Technology</i> , 2016, 37, 1277-1286.	2.4	5