

Manoj K Singh

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114
papers

6,605
citations

39
h-index

80
g-index

118
ext. papers

7,458
ext. citations

4.8
avg, IF

6.19
L-index

#	Paper	IF	Citations
114	Surface Modification of Graphene Nanosheets with Gold Nanoparticles: The Role of Oxygen Moieties at Graphene Surface on Gold Nucleation and Growth. <i>Chemistry of Materials</i> , 2009 , 21, 4796-4802	16.6	763
113	Graphene oxide modified with PMMA via ATRP as a reinforcement filler. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9927		381
112	Amine-modified graphene: thrombo-protective safer alternative to graphene oxide for biomedical applications. <i>ACS Nano</i> , 2012 , 6, 2731-40	16.7	369
111	Enhanced heat transfer and friction factor of MWCNT/Fe ₃ O ₄ /water hybrid nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 52, 73-83	5.8	345
110	Hybrid nanofluids preparation, thermal properties, heat transfer and friction factor [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 185-198	16.2	281
109	Investigation of thermal conductivity and viscosity of Fe ₃ O ₄ nanofluid for heat transfer applications. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 44, 7-14	5.8	253
108	Thrombus inducing property of atomically thin graphene oxide sheets. <i>ACS Nano</i> , 2011 , 5, 4987-96	16.7	222
107	Experimental thermal conductivity of ethylene glycol and water mixture based low volume concentration of Al ₂ O ₃ and CuO nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 41, 41-46	5.8	193
106	Thermal conductivity and viscosity of stabilized ethylene glycol and water mixture Al ₂ O ₃ nanofluids for heat transfer applications: An experimental study. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 56, 86-95	5.8	172
105	FTIR studies of nitrogen doped carbon nanotubes. <i>Diamond and Related Materials</i> , 2006 , 15, 385-388	3.5	168
104	Experimental investigation of forced convection heat transfer and friction factor in a tube with Fe ₃ O ₄ magnetic nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2012 , 37, 65-71	3	159
103	Empirical and theoretical correlations on viscosity of nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 25, 670-686	16.2	148
102	Thermal conductivity of ethylene glycol and water mixture based Fe ₃ O ₄ nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 49, 17-24	5.8	127
101	Self-assembly of tetramers of 5,6-dihydroxyindole explains the primary physical properties of eumelanin: experiment, simulation, and design. <i>ACS Nano</i> , 2013 , 7, 1524-32	16.7	122
100	Large-area high-throughput synthesis of monolayer graphene sheet by Hot Filament Thermal Chemical Vapor Deposition. <i>Scientific Reports</i> , 2012 , 2, 682	4.9	120
99	Deposition Mechanism and Properties of Thin Polydopamine Films for High Added Value Applications in Surface Science at the Nanoscale. <i>BioNanoScience</i> , 2012 , 2, 16-34	3.4	118
98	Nanodiamond-Fe ₃ O ₄ nanofluids: Preparation and measurement of viscosity, electrical and thermal conductivities. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 73, 62-74	5.8	116

97	Enhanced thermal conductivity and viscosity of nanodiamond-nickel nanocomposite nanofluids. <i>Scientific Reports</i> , 2014 , 4, 4039	4.9	107
96	Single-bilayer graphene oxide sheet impacts and underlying potential mechanism assessment in germinating faba bean (<i>Vicia faba</i> L.). <i>Science of the Total Environment</i> , 2014 , 472, 834-41	10.2	105
95	Convective heat transfer and friction factor correlations of nanofluid in a tube and with inserts: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 20, 23-35	16.2	101
94	Viscosity of low volume concentrations of magnetic Fe ₃ O ₄ nanoparticles dispersed in ethylene glycol and water mixture. <i>Chemical Physics Letters</i> , 2012 , 554, 236-242	2.5	99
93	Hydroxyapatite Modified with Carbon-Nanotube-Reinforced Poly(methyl methacrylate): A Nanocomposite Material for Biomedical Applications. <i>Advanced Functional Materials</i> , 2008 , 18, 694-700	15.6	94
92	Experimental investigation of Al ₂ O ₃ /water nanofluids on the effectiveness of solar flat-plate collectors with and without twisted tape inserts. <i>Renewable Energy</i> , 2018 , 119, 820-833	8.1	91
91	Experimental investigation of the thermal transport properties of graphene oxide/Co ₃ O ₄ hybrid nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 84, 1-10	5.8	88
90	Thermal conductivity and viscosity of hybrid nanofluids prepared with magnetic nanodiamond-cobalt oxide (ND-Co ₃ O ₄) nanocomposite. <i>Case Studies in Thermal Engineering</i> , 2016 , 7, 66-77	5.6	79
89	Thermal conductivity and viscosity of water based nanodiamond (ND) nanofluids: An experimental study. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 245-255	5.8	76
88	Comparative study on thermal performance of twisted tape and wire coil inserts in turbulent flow using CuO/water nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2014 , 57, 65-76	3	73
87	Heat transfer, friction factor and effectiveness analysis of Fe ₃ O ₄ /water nanofluid flow in a double pipe heat exchanger with return bend. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 81, 155-163	5.8	61
86	Comparison of synthetic dopamine-eumelanin formed in the presence of oxygen and Cu ²⁺ cations as oxidants. <i>Langmuir</i> , 2013 , 29, 12754-61	4	60
85	Experimental investigations in heat transfer and friction factor of magnetic Ni nanofluid flowing in a tube. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 70, 224-234	4.9	56
84	Numerical validation of experimental heat transfer coefficient with SiO ₂ nanofluid flowing in a tube with twisted tape inserts. <i>Applied Thermal Engineering</i> , 2014 , 73, 296-306	5.8	56
83	Experimental study of heat transfer and friction factor of Al ₂ O ₃ nanofluid in U-tube heat exchanger with helical tape inserts. <i>Experimental Thermal and Fluid Science</i> , 2015 , 62, 141-150	3	55
82	Effectiveness analysis of solar flat plate collector with Al ₂ O ₃ water nanofluids and with longitudinal strip inserts. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 422-435	4.9	52
81	Single-bilayer graphene oxide sheet tolerance and glutathione redox system significance assessment in faba bean (<i>Vicia faba</i> L.). <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	51
80	Turbulent heat transfer and friction factor of nanodiamond-nickel hybrid nanofluids flow in a tube: An experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 223-234	4.9	47

79	Heat transfer and friction factor of multi-walled carbon nanotubes/Fe ₃ O ₄ nanocomposite nanofluids flow in a tube with/without longitudinal strip inserts. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 100, 691-703	4.9	47
78	Heat Transfer Enhancement of Low Volume Concentration of Carbon Nanotube-Fe ₃ O ₄ /Water Hybrid Nanofluids in a Tube With Twisted Tape Inserts Under Turbulent Flow. <i>Journal of Thermal Science and Engineering Applications</i> , 2015 , 7,	1.9	46
77	Experimental heat transfer, friction factor and effectiveness analysis of Fe ₃ O ₄ nanofluid flow in a horizontal plain tube with return bend and wire coil inserts. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 109, 440-453	4.9	44
76	Experimental thermal conductivity and viscosity of nanodiamond-based propylene glycol and water mixtures. <i>Diamond and Related Materials</i> , 2016 , 69, 49-60	3.5	39
75	Optimization of post-deposition annealing in Cu ₂ ZnSnS ₄ thin film solar cells and its impact on device performance. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 170, 287-294	6.4	38
74	Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets. <i>Nanoscale</i> , 2010 , 2, 700-8	7.7	38
73	Effect of twisted tape inserts on heat transfer, friction factor of Fe ₃ O ₄ nanofluids flow in a double pipe U-bend heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2018 , 95, 53-62	5.8	36
72	Size distribution analysis and physical/fluorescence characterization of graphene oxide sheets by flow cytometry. <i>Carbon</i> , 2011 , 49, 684-692	10.4	36
71	Preparation of Ni-filled carbon nanotubes for key potential applications in nanotechnology. <i>Thin Solid Films</i> , 2004 , 469-470, 127-130	2.2	35
70	Integrated biomimetic carbon nanotube composites for in vivo systems. <i>Nanoscale</i> , 2010 , 2, 2855-63	7.7	32
69	Quantitative XRD characterisation and gas-phase photocatalytic activity testing for visible-light (indoor applications) of KRONOClean 7000. <i>RSC Advances</i> , 2015 , 5, 102911-102918	3.7	31
68	Electrical conductivity enhancement of nanodiamond/black (ND/ni) nanocomposite based magnetic nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 57, 1-7	5.8	31
67	Nanodiamonds activate blood platelets and induce thromboembolism. <i>Nanomedicine</i> , 2014 , 9, 427-40	5.6	31
66	Purely Visible-Light-Induced Photochromism in Ag-TiO Nanoheterostructures. <i>Langmuir</i> , 2017 , 33, 4890-4902	4	30
65	Graphene oxide and hydroxyapatite as fillers of polylactic acid nanocomposites: preparation and characterization. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6686-92	1.3	30
64	Quantitative analysis of hydrogen in chemical vapor deposited diamond films. <i>Diamond and Related Materials</i> , 2005 , 14, 476-481	3.5	30
63	High-resolution transmission electron microscopy mapping of nickel and cobalt single-crystalline nanorods inside multiwalled carbon nanotubes and chirality calculations. <i>Applied Physics Letters</i> , 2005 , 86, 253110	3.4	29
62	Heat transfer, friction factor and effectiveness of Fe ₃ O ₄ nanofluid flow in an inner tube of double pipe U-bend heat exchanger with and without longitudinal strip inserts. <i>Experimental Thermal and Fluid Science</i> , 2017 , 85, 331-343	3	27

61	Effect of samarium and vanadium co-doping on structure, ferroelectric and photocatalytic properties of bismuth titanate. <i>RSC Advances</i> , 2017 , 7, 9680-9692	3.7	26
60	Combination of Co ₃ O ₄ deposited rGO hybrid nanofluids and longitudinal strip inserts: Thermal properties, heat transfer, friction factor, and thermal performance evaluations. <i>Thermal Science and Engineering Progress</i> , 2020 , 20, 100695	3.6	26
59	Electrostatic self-assembled graphene oxide-collagen scaffolds towards a three-dimensional microenvironment for biomimetic applications. <i>RSC Advances</i> , 2016 , 6, 49039-49051	3.7	26
58	Electron field emission from patterned nanocrystalline diamond coated a-SiO ₂ micrometer-tip arrays. <i>Applied Physics Letters</i> , 2008 , 92, 023113	3.4	25
57	Heat transfer and friction factor of nanodiamond-nickel hybrid nanofluids flow in a tube with longitudinal strip inserts. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 121, 390-401	4.9	24
56	High density of multiwalled carbon nanotubes observed on nickel electroplated copper substrates by microwave plasma chemical vapor deposition. <i>Chemical Physics Letters</i> , 2002 , 354, 331-336	2.5	24
55	Energy, efficiency, economic impact, and heat transfer aspects of solar flat plate collector with Al ₂ O ₃ nanofluids and wire coil with core rod inserts. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 40, 100772	4.7	23
54	Effects of Additives on Kinetics, Morphologies and Lead-Sensing Property of Electrodeposited Bismuth Films. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22398-22406	3.8	23
53	Heat transfer and effectiveness experimentally-based analysis of wire coil with core-rod inserted in Fe ₃ O ₄ /water nanofluid flow in a double pipe U-bend heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 134, 405-419	4.9	22
52	A new polarised hot filament chemical vapor deposition process for homogeneous diamond nucleation on Si(100). <i>Diamond and Related Materials</i> , 2004 , 13, 270-276	3.5	22
51	Enhanced thermal properties of nanodiamond nanofluids. <i>Chemical Physics Letters</i> , 2016 , 644, 99-110	2.5	19
50	Optimized performance of nickel in crystal-layered arrangement of NiFe ₂ O ₄ /rGO hybrid for high-performance oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 2617-2629	6.7	19
49	Crystal structure, phase stoichiometry and chemical environment of Mg _x Nb _y O _{x+y} nanoparticles and their impact on hydrogen storage in MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11709-11715	6.7	16
48	Structural damage on multiwalled carbon nanotubes and encapsulated single crystal nickel nanorods irradiated with Au ⁷⁺ ions of 100 MeV. <i>Diamond and Related Materials</i> , 2006 , 15, 300-303	3.5	16
47	Nitrogen-modified nano-titania: True phase composition, microstructure and visible-light induced photocatalytic NO abatement. <i>Journal of Solid State Chemistry</i> , 2015 , 231, 87-100	3.3	14
46	Efficiency, energy and economic analysis of twisted tape inserts in a thermosyphon solar flat plate collector with Cu nanofluids. <i>Renewable Energy Focus</i> , 2020 , 35, 10-31	5.4	13
45	Step growth in single crystal diamond grown by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2006 , 15, 304-308	3.5	12
44	Efficiency analysis of thermosyphon solar flat plate collector with low mass concentrations of Nd ₂ O ₃ /Co ₃ O ₄ hybrid nanofluids: an experimental study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 959-972	4.1	12

43	Charge injection in large area multilayer graphene by ambient Kelvin probe force microscopy. <i>Applied Materials Today</i> , 2017 , 8, 18-25	6.6	11
42	Carbon Nanotube Based Magnetic Tunnel Junctions (MTJs) for Spintronics Application 2011 ,		11
41	Characterization of graphene oxide by flow cytometry and assessment of its cellular toxicity. <i>Journal of Biomedical Nanotechnology</i> , 2011 , 7, 30-1	4	11
40	Direct nucleation of silver nanoparticles on graphene sheet. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6731-6	1.3	11
39	Optical properties of zigzag twinned geometry of Zn ₂ SnO ₄ nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 486-9	1.3	10
38	Nanographene Oxide Functionalization with Organic and Hybrid Organic-Inorganic Polymers by Molecular Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24176-24186	3.8	10
37	Novel Two-Step Method for Synthesis of High-Density Nanocrystalline Diamond Fibers. <i>Chemistry of Materials</i> , 2008 , 20, 1725-1732	9.6	9
36	Enhancement of (100) texture in diamond films grown using a temperature gradient. <i>Diamond and Related Materials</i> , 2002 , 11, 1403-1408	3.5	9
35	Adsorption and Coupling of 4-aminophenol on Pt(111) surfaces. <i>Surface Science</i> , 2015 , 646, 5-12	1.8	8
34	Ni and Ni/Pt filling inside multiwalled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 165-70	1.3	8
33	Biocompatibility and biotoxicity of in-situ synthesized carboxylated nanodiamond-cobalt oxide nanocomposite. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 879-888	9.1	7
32	Synthesis, Characterization, and Properties of Graphene Analogs of 2D Material 2019 , 91-143		7
31	Time-resolved single molecule fluorescence spectroscopy of Cy5-dCTP: influence of the immobilization strategy. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 7225-30	3.6	7
30	Microstructure and electron field emission study of diamond nanorod decorated α -SiO ₂ nanowires by microwave Ar/H ₂ /H ₂ plasma chemical vapor deposition with addition of N ₂ . <i>Diamond and Related Materials</i> , 2009 , 18, 865-869	3.5	7
29	Preparation, Thermal and Rheological Properties of Propylene Glycol and Water Mixture Based Fe ₃ O ₄ Nanofluids. <i>Journal of Nanofluids</i> , 2014 , 3, 200-209	2.2	7
28	Heat Transfer and Friction Factor of Al ₂ O ₃ Nanofluid Flow in a Double Pipe U-Tube Heat Exchanger and with Longitudinal Strip Inserts: An Experimental Study. <i>Journal of Nanofluids</i> , 2015 , 4, 293-301	2.2	7
27	Magnetic Field Induced Enhancement in Thermal Conductivity and Viscosity of Stabilized Vacuum Pump Oil (VPO)/Fe ₃ O ₄ Magnetic Nanofluids. <i>Journal of Nanofluids</i> , 2015 , 4, 7-15	2.2	6
26	Recent Developments in Graphene-Based Two-Dimensional Heterostructures for Sensing Applications 2019 , 407-436		5

25	Filled-carbon nanotubes: 1 D nanomagnets possessing uniaxial magnetization axis and reversal magnetization switching. <i>Carbon</i> , 2017 , 119, 464-475	10.4	4
24	Fabrication and field emission property studies of vertically aligned multiwalled carbon nanotubes grown by double plasma chemical vapour deposition technique. <i>Diamond and Related Materials</i> , 2009 , 18, 967-971	3.5	4
23	Biotoxicity study of bone cement based on a functionalised multi-walled carbon nanotube-reinforced PMMA/HAp nanocomposite. <i>International Journal of Nano and Biomaterials</i> , 2009 , 2, 442	0.2	4
22	Melting and defect generation in chemical vapor deposited diamond due to irradiation with 100 MeV Au + and Ag + ions. <i>Thin Solid Films</i> , 2006 , 503, 121-126	2.2	4
21	Diamond nucleation and growth on zeolites. <i>Diamond and Related Materials</i> , 2003 , 12, 1647-1652	3.5	4
20	Single crystalline nickel nanorods inside carbon nanotubes: growth behavior, structure, and magnetic properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 596-600	1.3	4
19	Ternary VS ₂ /ZnS/CdS hybrids as efficient electrocatalyst for hydrogen evolution reaction: Experimental and theoretical insights. <i>AIP Advances</i> , 2021 , 11, 105010	1.5	4
18	Nanocrystalline diamond on SiO ₂ fiber: A new class of hybrid material. <i>Diamond and Related Materials</i> , 2008 , 17, 1106-1109	3.5	3
17	Defect concentration in nitrogen-doped graphene grown on Cu substrate: A thickness effect. <i>Physica B: Condensed Matter</i> , 2017 , 513, 62-68	2.8	2
16	Fabrication of vertically aligned carbon nanotubes for spintronic device applications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7216		2
15	Structural and optical properties of tin oxide branched nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 640-3	1.3	2
14	Growth of (100) oriented diamond grains by the application of lateral temperature gradients across silicon substrates. <i>Journal of Materials Research</i> , 2004 , 19, 3206-3213	2.5	2
13	Effect of heavy ion irradiation on self-supported diamond sheets. <i>Diamond and Related Materials</i> , 2003 , 12, 1771-1775	3.5	2
12	The Cobalt Oxide-Based Composite Nanomaterial Synthesis and Its Biomedical and Engineering Applications 2019 ,		2
11	Tuning the synergistic effects of MoS ₂ and spinel NiFe ₂ O ₄ nanostructures for high performance energy storage and conversion applications. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 3906-3917	5.8	2
10	Solar energy absorbed thermosyphon flat plate collector analysis using Cu/H ₂ O nanofluid [An experimental study. <i>Energy and Climate Change</i> , 2021 , 2, 100028	1.2	2
9	Morphological, compositional and ultrastructural changes in the <i>Scrobicularia plana</i> shell in response to environmental mercury--an indelible fingerprint of metal exposure?. <i>Chemosphere</i> , 2013 , 90, 2697-704	8.4	1
8	UV emission from patterned growth of ZnO nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2764-7	1.3	1

7	Automated high-throughput screening of carbon nanotube-based bio-nanocomposites for bone cement applications. <i>Pure and Applied Chemistry</i> , 2011 , 83, 2063-2069	2.1	1
6	Synthesis and field emission properties of ultra-nanocrystalline diamond fibers and helices. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2422-33	1.3	1
5	Augmentation of Heat Transfer of High Prandtl Number Fe ₃ O ₄ /vacuum pump oil nanofluids flow in a tube with twisted tape inserts in laminar flow. <i>Heat and Mass Transfer</i> , 2020 , 56, 3111-3125	2.2	1
4	Thermosyphon solar water heating system with Cu/water nanofluid and wire coil configurations: Efficiency, energy, economic, environmental, and heat transfer study. <i>Environmental Progress and Sustainable Energy</i> , 2021 , 40, e13648	2.5	0
3	Ferromagnetic behaviour of nickel contacted multiwalled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2606-10	1.3	
2	Thermal Energy Storage in Phase Change Materials and Its Applications 2020 , 29-49		
1	CVD of flat monolayer of 2D atomics honeycomb structure and their applications 2019 , 245-271		