

Manoj K Singh

List of Publications by Year in descending order

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118
papers

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66315

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docs citations

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times ranked

9692
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.2	838
2	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.	2.9	482
3	Graphene oxide modified with PMMA via ATRP as a reinforcement filler. <i>Journal of Materials Chemistry</i> , 2010, 20, 9927.	6.7	423
4	Amine-Modified Graphene: Thrombo-Protective Safer Alternative to Graphene Oxide for Biomedical Applications. <i>ACS Nano</i> , 2012, 6, 2731-2740.	7.3	420
5	Hybrid nanofluids preparation, thermal properties, heat transfer and friction factor – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 185-198.	8.2	406
6	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.	2.9	350
7	Thrombus Inducing Property of Atomically Thin Graphene Oxide Sheets. <i>ACS Nano</i> , 2011, 5, 4987-4996.	7.3	262
8	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.	2.9	240
9	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.	2.9	219
10	FTIR studies of nitrogen doped carbon nanotubes. <i>Diamond and Related Materials</i> , 2006, 15, 385-388.	1.8	214
11	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.	1.5	200
12	Empirical and theoretical correlations on viscosity of nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 25, 670-686.	8.2	183
13	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.	2.9	159
14	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.	2.9	157
15	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, 1524-1532.	7.3	145
16	Enhanced Thermal Conductivity and Viscosity of Nanodiamond-Nickel Nanocomposite Nanofluids. <i>Scientific Reports</i> , 2014, 4, 4039.	1.6	145
17	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.	1.5	139
18	Large-area high-throughput synthesis of monolayer graphene sheet by Hot Filament Thermal Chemical Vapor Deposition. <i>Scientific Reports</i> , 2012, 2, 682.	1.6	138

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19	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, 834-841.	3.9	137
20	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.	4.3	123
21	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.	8.2	121
22	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.	1.2	120
23	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.	2.9	117
24	Hydroxyapatite Modified with Carbon Nanotube Reinforced Poly(methyl methacrylate): A Nanocomposite Material for Biomedical Applications. <i>Advanced Functional Materials</i> , 2008, 18, 694-700.	7.8	109
25	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.	2.8	106
26	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.	2.9	100
27	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.	1.5	90
28	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.	2.9	89
29	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.	2.5	78
30	Comparison of Synthetic Dopamine Eumelanin Formed in the Presence of Oxygen and Cu ²⁺ Cations as Oxidants. <i>Langmuir</i> , 2013, 29, 12754-12761.	1.6	75
31	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.	2.5	75
32	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.	1.5	71
33	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.	2.5	68
34	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.	3.0	67
35	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.	2.5	62
36	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.	2.5	60

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37	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.	0.8	59
38	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, .	0.8	52
39	Experimental thermal conductivity and viscosity of nanodiamond-based propylene glycol and water mixtures. <i>Diamond and Related Materials</i> , 2016, 69, 49-60.	1.8	49
40	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.	3.0	48
41	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.	2.9	47
42	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.	3.8	44
43	Electrical conductivity enhancement of nanodiamond-nickel (ND-Ni) nanocomposite based magnetic nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014, 57, 1-7.	2.9	42
44	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.	1.7	40
45	Effect of samarium and vanadium co-doping on structure, ferroelectric and photocatalytic properties of bismuth titanate. <i>RSC Advances</i> , 2017, 7, 9680-9692.	1.7	39
46	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.	1.5	39
47	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.	2.5	39
48	Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets. <i>Nanoscale</i> , 2010, 2, 700.	2.8	38
49	Nanodiamonds activate blood platelets and induce thromboembolism. <i>Nanomedicine</i> , 2014, 9, 427-440.	1.7	38
50	Purely Visible-Light-Induced Photochromism in Ag-TiO ₂ Nanoheterostructures. <i>Langmuir</i> , 2017, 33, 4890-4902.	1.6	38
51	Preparation of Ni-filled carbon nanotubes for key potential applications in nanotechnology. <i>Thin Solid Films</i> , 2004, 469-470, 127-130.	0.8	37
52	Size distribution analysis and physical/fluorescence characterization of graphene oxide sheets by flow cytometry. <i>Carbon</i> , 2011, 49, 684-692.	5.4	37
53	Integrated biomimetic carbon nanotube composites for in vivo systems. <i>Nanoscale</i> , 2010, 2, 2855.	2.8	35
54	Electrostatic self-assembled graphene oxide-collagen scaffolds towards a three-dimensional microenvironment for biomimetic applications. <i>RSC Advances</i> , 2016, 6, 49039-49051.	1.7	35

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55	Graphene Oxide and Hydroxyapatite as Fillers of Polylactic Acid Nanocomposites: Preparation and Characterization. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6686-6692.	0.9	33
56	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.	1.3	33
57	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.	1.5	32
58	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.	2.5	32
59	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.	1.7	32
60	Quantitative analysis of hydrogen in chemical vapor deposited diamond films. <i>Diamond and Related Materials</i> , 2005, 14, 476-481.	1.8	31
61	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.	1.5	31
62	Efficiency analysis of thermosyphon solar flat plate collector with low mass concentrations of NDâ€“Co ₃ O ₄ hybrid nanofluids: an experimental study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 959-972.	2.0	29
63	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.	1.2	28
64	Electron field emission from patterned nanocrystalline diamond coated a-SiO ₂ micrometer-tip arrays. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	28
65	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.	3.8	26
66	Enhanced thermal properties of nanodiamond nanofluids. <i>Chemical Physics Letters</i> , 2016, 644, 99-110.	1.2	24
67	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.	1.8	22
68	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.	1.4	18
69	Synthesis, Characterization, and Properties of Graphene Analogs of 2D Material. , 2019, , 91-143.		18
70	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.	2.2	18
71	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.	1.8	16
72	Step growth in single crystal diamond grown by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2006, 15, 304-308.	1.8	14

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73	Characterization of Graphene Oxide by Flow Cytometry and Assessment of Its Cellular Toxicity. Journal of Biomedical Nanotechnology, 2011, 7, 30-31.	0.5	13
74	Ternary VS ₂ /ZnS/CdS hybrids as efficient electrocatalyst for hydrogen evolution reaction: Experimental and theoretical insights. AIP Advances, 2021, 11, .	0.6	13
75	Optical Properties of Zigzag Twinned Geometry of Zn ₂ SnO ₄ Nanowires. Journal of Nanoscience and Nanotechnology, 2007, 7, 486-489.	0.9	12
76	Carbon Nanotube Based Magnetic Tunnel Junctions (MTJs) for Spintronics Application. , 2011, , .		12
77	Direct Nucleation of Silver Nanoparticles on Graphene Sheet. Journal of Nanoscience and Nanotechnology, 2012, 12, 6731-6736.	0.9	12
78	Nanographene Oxide Functionalization with Organic and Hybrid Organic-Inorganic Polymers by Molecular Layer Deposition. Journal of Physical Chemistry C, 2016, 120, 24176-24186.	1.5	11
79	Charge injection in large area multilayer graphene by ambient Kelvin probe force microscopy. Applied Materials Today, 2017, 8, 18-25.	2.3	11
80	Preparation, Thermal and Rheological Properties of Propylene Glycol and Water Mixture Based Fe ₃ O ₄ Nanofluids. Journal of Nanofluids, 2014, 3, 200-209.	1.4	11
81	Enhancement of (100) texture in diamond films grown using a temperature gradient. Diamond and Related Materials, 2002, 11, 1403-1408.	1.8	10
82	Filled-carbon nanotubes: 1 D nanomagnets possessing uniaxial magnetization axis and reversal magnetization switching. Carbon, 2017, 119, 464-475.	5.4	10
83	Recent Developments in Graphene-Based Two-Dimensional Heterostructures for Sensing Applications. , 2019, , 407-436.		10
84	Solar energy absorbed thermosyphon flat plate collector analysis using Cu/H ₂ O nanofluid An experimental study. Energy and Climate Change, 2021, 2, 100028.	2.2	10
85	Magnetic Field Induced Enhancement in Thermal Conductivity and Viscosity of Stabilized Vacuum Pump Oil (VPO) Fe ₃ O ₄ Magnetic Nanofluids. Journal of Nanofluids, 2015, 4, 7-15.	1.4	10
86	Experimental Heat Transfer and Friction Factor of Fe ₃ O ₄ Magnetic Nanofluids Flow in a Tube under Laminar Flow at High Prandtl Numbers. International Journal of Heat and Technology, 2020, 38, 301-313.	0.3	10
87	Novel Two-Step Method for Synthesis of High-Density Nanocrystalline Diamond Fibers. Chemistry of Materials, 2008, 20, 1725-1732.	3.2	9
88	Ni and Ni/Pt Filling Inside Multiwalled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2003, 3, 165-170.	0.9	8
89	Time-resolved single molecule fluorescence spectroscopy of Cy5-dCTP: influence of the immobilization strategy. Physical Chemistry Chemical Physics, 2009, 11, 7225.	1.3	8
90	Adsorption and coupling of 4-aminophenol on Pt(111) surfaces. Surface Science, 2016, 646, 5-12.	0.8	8

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91	Biocompatibility and biotoxicity of in-situ synthesized carboxylated nanodiamond-cobalt oxide nanocomposite. <i>Journal of Materials Science and Technology</i> , 2017, 33, 879-888.	5.6	8
92	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.	2.5	8
93	Microstructure and electron field emission study of diamond nanorod decorated a-SiO ₂ nanowires by microwave CH ₄ /H ₂ plasma chemical vapor deposition with addition of N ₂ . <i>Diamond and Related Materials</i> , 2009, 18, 865-869.	1.8	7
94	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.	1.4	7
95	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.	1.8	6
96	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.	0.8	5
97	Nanocrystalline diamond on SiO ₂ fiber: A new class of hybrid material. <i>Diamond and Related Materials</i> , 2008, 17, 1106-1109.	1.8	5
98	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.	0.1	5
99	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.	1.2	5
100	Diamond nucleation and growth on zeolites. <i>Diamond and Related Materials</i> , 2003, 12, 1647-1652.	1.8	4
101	Single Crystalline Nickel Nanorods Inside Carbon Nanotubes: Growth Behavior, Structure, and Magnetic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 596-600.	0.9	4
102	Fabrication of vertically aligned carbon nanotubes for spintronic device applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 7216.	6.7	4
103	Structural and Optical Properties of Tin Oxide Branched Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 640-643.	0.9	3
104	Defect concentration in nitrogen-doped graphene grown on Cu substrate: A thickness effect. <i>Physica B: Condensed Matter</i> , 2017, 513, 62-68.	1.3	3
105	The Cobalt Oxide-Based Composite Nanomaterial Synthesis and Its Biomedical and Engineering Applications. , 0, , .		3
106	Effect of heavy ion irradiation on self-supported diamond sheets. <i>Diamond and Related Materials</i> , 2003, 12, 1771-1775.	1.8	2
107	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.	1.2	2
108	Synthesis and Field Emission Properties of Ultra-Nanocrystalline Diamond Fibers and Helices. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2422-2433.	0.9	2

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109	Thermosyphon solar water heating system with Cu/water nanofluid and wire coil configurations: Efficiency, energy, economic, environmental, and heat transfer study. Environmental Progress and Sustainable Energy, 2021, 40, e13648.	1.3	2
110	UV Emission from Patterned Growth of ZnO Nanowires. Journal of Nanoscience and Nanotechnology, 2010, 10, 2764-2767.	0.9	1
111	Automated high-throughput screening of carbon nanotube-based bio-nanocomposites for bone cement applications. Pure and Applied Chemistry, 2011, 83, 2063-2069.	0.9	1
112	Morphological, compositional and ultrastructural changes in the Scrobicularia plana shell in response to environmental mercury – An indelible fingerprint of metal exposure?. Chemosphere, 2013, 90, 2697-2704.	4.2	1
113	Ferromagnetic Behaviour of Nickel Contacted Multiwalled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2010, 10, 2606-2610.	0.9	0
114	Selected Peer-Reviewed Articles from International Conference on Advanced Nano Materials (ANM) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	0
115	Two-Dimensional Materials for Advanced Solar Cells. , 0, , .		0
116	Experimental Study on Heat Transfer and Friction Factor of Nanodiamond-Nickel (ND-Ni) Nanocomposite Nanofluids Flow in a Tube with Twisted Tape Inserts. Journal of Nanofluids, 2018, 8, 980-989.	1.4	0
117	CVD of flat monolayer of 2D atomics honeycomb structure and their applications. , 2019, , 245-271.		0
118	Thermal Energy Storage in Phase Change Materials and Its Applications. , 2020, , 29-49.		0