

Mohammad Mehrali

List of Publications by Year in descending order

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67
papers

5,918
citations

44069

48
h-index

91884

69
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69
all docs

69
docs citations

69
times ranked

5898
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of thermal conductivity and rheological properties of nanofluids containing graphene nanoplatelets. <i>Nanoscale Research Letters</i> , 2014, 9, 15.	5.7	341
2	Shape-stabilized phase change materials with high thermal conductivity based on paraffin/graphene oxide composite. <i>Energy Conversion and Management</i> , 2013, 67, 275-282.	9.2	306
3	A comprehensive review on graphene nanofluids: Recent research, development and applications. <i>Energy Conversion and Management</i> , 2016, 111, 466-487.	9.2	253
4	Graphene nanoplatelet-fly ash based geopolymer composites. <i>Cement and Concrete Research</i> , 2015, 76, 222-231.	11.0	250
5	Preparation and characterization of palmitic acid/graphene nanoplatelets composite with remarkable thermal conductivity as a novel shape-stabilized phase change material. <i>Applied Thermal Engineering</i> , 2013, 61, 633-640.	6.0	222
6	Synthesis, characterization and thermal properties of nanoencapsulated phase change materials via sol-gel method. <i>Energy</i> , 2013, 61, 664-672.	8.8	204
7	Investigation of heat transfer performance and friction factor of a counter-flow double-pipe heat exchanger using nitrogen-doped, graphene-based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 16-23.	5.6	179
8	Synthesis, Mechanical Properties, and in Vitro Biocompatibility with Osteoblasts of Calcium Silicate-Reduced Graphene Oxide Composites. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3947-3962.	8.0	153
9	Full-spectrum volumetric solar thermal conversion via graphene/silver hybrid plasmonic nanofluids. <i>Applied Energy</i> , 2018, 224, 103-115.	10.1	150
10	Thermal performance enhancement of an evacuated tube solar collector using graphene nanoplatelets nanofluid. <i>Journal of Cleaner Production</i> , 2017, 162, 121-129.	9.3	149
11	Preparation of nitrogen-doped graphene/palmitic acid shape stabilized composite phase change material with remarkable thermal properties for thermal energy storage. <i>Applied Energy</i> , 2014, 135, 339-349.	10.1	134
12	Preparation and properties of highly conductive palmitic acid/graphene oxide composites as thermal energy storage materials. <i>Energy</i> , 2013, 58, 628-634.	8.8	130
13	A comprehensive literature review of bio-fuel performance in internal combustion engine and relevant costs involvement. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 30, 29-44.	16.4	126
14	Heat transfer and entropy generation analysis of hybrid graphene/Fe ₃ O ₄ ferro-nanofluid flow under the influence of a magnetic field. <i>Powder Technology</i> , 2017, 308, 149-157.	4.2	123
15	One-Step Preparation of Form-Stable Phase Change Material through Self-Assembly of Fatty Acid and Graphene. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22787-22796.	3.1	118
16	A Comprehensive Study of the Polypropylene Fiber Reinforced Fly Ash Based Geopolymer. <i>PLoS ONE</i> , 2016, 11, e0147546.	2.5	118
17	High tensile strength fly ash based geopolymer composite using copper coated micro steel fiber. <i>Construction and Building Materials</i> , 2016, 112, 629-638.	7.2	116
18	Experimental investigation of the effect of graphene nanofluids on heat pipe thermal performance. <i>Applied Thermal Engineering</i> , 2016, 100, 775-787.	6.0	115

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19	An experimental and numerical investigation of heat transfer enhancement for graphene nanoplatelets nanofluids in turbulent flow conditions. <i>International Journal of Heat and Mass Transfer</i> , 2015, 81, 41-51.	4.8	109
20	Preparation, characterization, viscosity, and thermal conductivity of nitrogen-doped graphene aqueous nanofluids. <i>Journal of Materials Science</i> , 2014, 49, 7156-7171.	3.7	108
21	Dental implants from functionally graded materials. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3046-3057.	4.0	105
22	Effect of specific surface area on convective heat transfer of graphene nanoplatelet aqueous nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2015, 68, 100-108.	2.7	103
23	Simultaneous solar-thermal energy harvesting and storage via shape stabilized salt hydrate phase change material. <i>Chemical Engineering Journal</i> , 2021, 405, 126624.	12.7	102
24	Experimental Investigation of Convective Heat Transfer Using Graphene Nanoplatelet Based Nanofluids under Turbulent Flow Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12455-12465.	3.7	88
25	Effect of nitrogen-doped graphene nanofluid on the thermal performance of the grooved copper heat pipe. <i>Energy Conversion and Management</i> , 2016, 118, 459-473.	9.2	87
26	Heat transfer and entropy generation for laminar forced convection flow of graphene nanoplatelets nanofluids in a horizontal tube. <i>International Communications in Heat and Mass Transfer</i> , 2015, 66, 23-31.	5.6	84
27	A state-of-the-art review on hybrid heat pipe latent heat storage systems. <i>Energy Conversion and Management</i> , 2015, 105, 1178-1204.	9.2	84
28	Hot-pressed geopolymers. <i>Cement and Concrete Research</i> , 2017, 100, 14-22.	11.0	84
29	Accelerated Thermal Cycling Test of Microencapsulated Paraffin Wax/Polyaniline Made by Simple Preparation Method for Solar Thermal Energy Storage. <i>Materials</i> , 2013, 6, 1608-1620.	2.9	83
30	Blending Electronics with the Human Body: A Pathway toward a Cybernetic Future. <i>Advanced Science</i> , 2018, 5, 1700931.	11.2	83
31	A comprehensive review of bio-diesel as alternative fuel for compression ignition engines. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 28, 410-424.	16.4	81
32	Effect of carbon nanospheres on shape stabilization and thermal behavior of phase change materials for thermal energy storage. <i>Energy Conversion and Management</i> , 2014, 88, 206-213.	9.2	78
33	Theoretical model of an evacuated tube heat pipe solar collector integrated with phase change material. <i>Energy</i> , 2015, 91, 911-924.	8.8	78
34	Investigation on the use of graphene oxide as novel surfactant to stabilize weakly charged graphene nanoplatelets. <i>Nanoscale Research Letters</i> , 2015, 10, 212.	5.7	77
35	Facile synthesis and thermal performances of stearic acid/titania core/shell nanocapsules by sol-gel method. <i>Energy</i> , 2015, 85, 635-644.	8.8	76
36	Experiment on forced convective heat transfer enhancement using MWCNTs/GNPs hybrid nanofluid and mini-tube. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1121-1131.	4.8	75

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37	An ecofriendly graphene-based nanofluid for heat transfer applications. <i>Journal of Cleaner Production</i> , 2016, 137, 555-566.	9.3	72
38	Electrophoretic deposition of calcium silicateâ€“reduced graphene oxide composites on titanium substrate. <i>Journal of the European Ceramic Society</i> , 2016, 36, 319-332.	5.7	67
39	Evaluation of viscosity and thermal conductivity of graphene nanoplatelets nanofluids through a combined experimentalâ€“statistical approach using respond surface methodology method. <i>International Communications in Heat and Mass Transfer</i> , 2016, 79, 74-80.	5.6	63
40	Adsorption capability of heavy metals by chitosan/poly(ethylene oxide)/activated carbon electrospun nanofibrous membrane. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45851.	2.6	63
41	Pectin Methacrylate (PEMA) and Gelatin-Based Hydrogels for Cell Delivery: Converting Waste Materials into Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12283-12297.	8.0	61
42	Facile synthesis of calcium silicate hydrate using sodium dodecyl sulfate as a surfactant assisted by ultrasonic irradiation. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 735-742.	8.2	60
43	Thermal performance of a compact design heat pipe solar collector with latent heat storage in charging/discharging modes. <i>Energy</i> , 2017, 127, 101-115.	8.8	60
44	Chitosan (PEO)/bioactive glass hybrid nanofibers for bone tissue engineering. <i>RSC Advances</i> , 2014, 4, 49144-49152.	3.6	59
45	Heat Transfer and Entropy Generation Abilities of MWCNTs/GNPs Hybrid Nanofluids in Microtubes. <i>Entropy</i> , 2019, 21, 480.	2.2	57
46	Experimental study on heat transfer augmentation of graphene based ferrofluids in presence of magnetic field. <i>Applied Thermal Engineering</i> , 2017, 114, 415-427.	6.0	56
47	Mechanical and In Vitro Biological Performance of Graphene Nanoplatelets Reinforced Calcium Silicate Composite. <i>PLoS ONE</i> , 2014, 9, e106802.	2.5	53
48	Fabrication and Performances of Microencapsulated Palmitic Acid with Enhanced Thermal Properties. <i>Energy & Fuels</i> , 2015, 29, 1010-1018.	5.1	52
49	Experimental investigation on the use of reduced graphene oxide and its hybrid complexes in improving closed conduit turbulent forced convective heat transfer. <i>Experimental Thermal and Fluid Science</i> , 2015, 66, 290-303.	2.7	47
50	Experimental investigation of thermophysical properties, entropy generation and convective heat transfer for a nitrogen-doped graphene nanofluid in a laminar flow regime. <i>Advanced Powder Technology</i> , 2016, 27, 717-727.	4.1	43
51	Experimental and numerical investigation of the effective electrical conductivity of nitrogen-doped graphene nanofluids. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	41
52	Parametric study on the thermal performance enhancement of a thermosyphon heat pipe using covalent functionalized graphene nanofluids. <i>Applied Thermal Engineering</i> , 2020, 175, 115385.	6.0	41
53	Investigation of interfacial damping nanotube-based composite. <i>Composites Part B: Engineering</i> , 2013, 50, 354-361.	12.0	38
54	From rice husk to high performance shape stabilized phase change materials for thermal energy storage. <i>RSC Advances</i> , 2016, 6, 45595-45604.	3.6	35

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55	Highly dispersed reduced graphene oxide and its hybrid complexes as effective additives for improving thermophysical property of heat transfer fluid. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 284-294.	4.8	31
56	Synthesis, properties, and biomedical applications of alginate methacrylate (ALMA)-based hydrogels: Current advances and challenges. <i>Applied Materials Today</i> , 2021, 24, 101150.	4.3	29
57	Influence of quadrupole magnetic field on mass transfer in an extraction column in the presence of MnFe ₂ O ₄ nanoparticles. <i>Journal of Molecular Liquids</i> , 2017, 238, 145-154.	4.9	22
58	Incorporation of Human-Platelet-Derived Growth Factor-BB Encapsulated Poly(lactic-co-glycolic acid) Microspheres into 3D CORAGRAF Enhances Osteogenic Differentiation of Mesenchymal Stromal Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9291-9303.	8.0	15
59	Progress of experimental studies on compact integrated solar collector-storage retrofits adopting phase change materials. <i>Solar Energy</i> , 2022, 237, 62-95.	6.1	15
60	Experimental and numerical analysis of thermal performance of shape stabilized PCM in a solar thermal collector. <i>Case Studies in Thermal Engineering</i> , 2022, 30, 101706.	5.7	12
61	Calcium-Silicate-Incorporated Gellan-Chitosan Induced Osteogenic Differentiation in Mesenchymal Stromal Cells. <i>Polymers</i> , 2021, 13, 3211.	4.5	11
62	Highly hydrophobic silanized melamine foam for facile and uniform assembly of graphene nanoplatelet towards efficient light-to-thermal energy storage. <i>Materials Today Energy</i> , 2022, 28, 101077.	4.7	10
63	Facile Preparation of Carbon Microcapsules Containing Phase-Change Material with Enhanced Thermal Properties. <i>Scientific World Journal</i> , The, 2014, 2014, 1-5.	2.1	9
64	Effects of carbon doping on the microstructural, micro/nano-mechanical, and mesenchymal stromal cells biocompatibility and osteogenic differentiation properties of alumina. <i>Ceramics International</i> , 2016, 42, 18247-18256.	4.8	9
65	Comparison of nanostructured nickel zinc ferrite and magnesium copper zinc ferrite prepared by water-in-oil microemulsion. <i>Electronic Materials Letters</i> , 2012, 8, 639-642.	2.2	5
66	2D titanoniobate-titaniumcarbide nanohybrid anodes for ultrafast lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 512, 230523.	7.8	5
67	Flexible Bioelectronics: Blending Electronics with the Human Body: A Pathway toward a Cybernetic Future (<i>Adv. Sci.</i> 10/2018). <i>Advanced Science</i> , 2018, 5, 1870059.	11.2	1