Shima P Damodaran

List of Publications by Year
in descending order

21 papers	1,976 citations	516681 16 h-index	713444 21 g-index
21 all docs	21 docs citations	21 times ranked	1871 citing authors

#	Article	IF	Citations
1	Enhancement of thermal conductivity in magnetite based nanofluid due to chainlike structures. Applied Physics Letters, 2007, 91, .	3.3	320
2	Thermal properties of nanofluids. Advances in Colloid and Interface Science, 2012, 183-184, 30-45.	14.7	225
3	Evidence for enhanced thermal conduction through percolating structures in nanofluids. Nanotechnology, 2008, 19, 305706.	2.6	224
4	Nanofluid with tunable thermal properties. Applied Physics Letters, 2008, 92, .	3.3	207
5	Synthesis of Aqueous and Nonaqueous Iron Oxide Nanofluids and Study of Temperature Dependence on Thermal Conductivity and Viscosity. Journal of Physical Chemistry C, 2010, 114, 18825-18833.	3.1	173
6	Role of microconvection induced by Brownian motion of nanoparticles in the enhanced thermal conductivity of stable nanofluids. Applied Physics Letters, 2009, 94, .	3.3	156
7	Tuning of Thermal Conductivity and Rheology of Nanofluids Using an External Stimulus. Journal of Physical Chemistry C, 2011, 115, 20097-20104.	3.1	132
8	Magnetically controllable nanofluid with tunable thermal conductivity and viscosity. Applied Physics Letters, 2009, 95, .	3.3	120
9	Influence of aggregation on thermal conductivity in stable and unstable nanofluids. Applied Physics Letters, 2010, 97, .	3.3	90
10	Graphene oxide-wrapped magnetite nanoclusters: A recyclable functional hybrid for fast and highly efficient removal of organic dyes from wastewater. Journal of Environmental Chemical Engineering, 2018, 6, 2176-2190.	6.7	60
11	Role of Thermal Conductivity of Dispersed Nanoparticles on Heat Transfer Properties of Nanofluid. Industrial & Engineering Chemistry Research, 2014, 53, 980-988.	3.7	58
12	Mesoporous magnetite nanoparticle-decorated graphene oxide nanosheets for efficient electrochemical detection of hydrazine. Journal of Materials Science, 2019, 54, 4073-4088.	3.7	47
13	A Millifluidic Study of Cell-to-Cell Heterogeneity in Growth-Rate and Cell-Division Capability in Populations of Isogenic Cells of Chlamydomonas reinhardtii. PLoS ONE, 2015, 10, e0118987.	2.5	45
14	Size-controlled synthesis of superparamagnetic magnetite nanoclusters for heat generation in an alternating magnetic field. Journal of Molecular Liquids, 2019, 281, 315-323.	4.9	38
15	Novel Nanofluids Based on Magnetite Nanoclusters and Investigation on Their Cluster Size-Dependent Thermal Conductivity. Journal of Physical Chemistry C, 2018, 122, 6918-6929.	3.1	22
16	Synthesis, Characterization, Thermal Conductivity and Rheological Studies in Magnetite-Decorated Graphene Oxide Nanofluids. Journal of Nanofluids, 2018, 7, 11-20.	2.7	22
17	Graphene oxide based highly sensitive electrochemical sensor for detection of environmental pollutants and biomolecules. Materials Research Express, 2019, 6, 085548.	1.6	15
18	Graphene oxide-mesoporous iron oxide nanohybrid: an efficient reusable nanoadsorbent for the removal of organic dyes from wastewater. Materials Research Express, 2019, 6, 0850f8.	1.6	8

#	Article	IF	Citations
19	Tuning magnetic heating efficiency of colloidal dispersions of iron oxide nano-clusters by varying the surfactant concentration during solvothermal synthesis. Journal of Molecular Liquids, 2022, 360, 119444.	4.9	7
20	Mesoporous Magnetite Nanoclusters as Efficient Nanocarriers for Paclitaxel Delivery. ChemistrySelect, 2020, 5, 9261-9268.	1.5	6
21	Novel Nanohybrid Containing Magnetite Nanoclusterâ€Decorated Reduced Graphene Oxide Nanosheets for Heat Transfer Applications. ChemistrySelect, 2021, 6, 6698-6706.	1.5	1