Mahyar Silakhori

List of Publications by Year
in descending order

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27 papers	1,359 citations	430442 18 h-index	525886 27 g-index
27 all docs	27 docs citations	27 times ranked	1661 citing authors

#	Article	IF	Citations
1	Shape-stabilized phase change materials with high thermal conductivity based on paraffin/graphene oxide composite. Energy Conversion and Management, 2013, 67, 275-282.	4.4	306
2	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. Energies, 2019, 12, 3167.	1.6	197
3	Accelerated Thermal Cycling Test of Microencapsulated Paraffin Wax/Polyaniline Made by Simple Preparation Method for Solar Thermal Energy Storage. Materials, 2013, 6, 1608-1620.	1.3	83
4	Palmitic acid/polypyrrole composites as form-stable phase change materials for thermal energy storage. Energy Conversion and Management, 2014, 80, 491-497.	4.4	83
5	On the fouling formation of functionalized and non-functionalized carbon nanotube nano-fluids under pool boiling condition. Applied Thermal Engineering, 2016, 95, 433-444.	3.0	80
6	Theoretical model of an evacuated tube heat pipe solar collector integrated with phase change material. Energy, 2015, 91, 911-924.	4.5	78
7	Preparation and thermal properties of form-stable phase change materials composed of palmitic acid/polypyrrole/graphene nanoplatelets. Energy and Buildings, 2015, 99, 189-195.	3.1	73
8	Thermal characteristic reliability of fatty acid binary mixtures as phase change materials (PCMs) for thermal energy storage applications. Applied Thermal Engineering, 2015, 80, 127-131.	3.0	57
9	Phase change material: Optimizing the thermal properties and thermal conductivity of myristic acid/palmitic acid eutectic mixture with acid-based surfactants. Applied Thermal Engineering, 2013, 60, 261-265.	3.0	48
10	A sensitive electrochemical nitrate sensor based on polypyrrole coated palladium nanoclusters. Journal of Electroanalytical Chemistry, 2015, 751, 30-36.	1.9	44
11	Sodium laurate enhancements the thermal properties and thermal conductivity of eutectic fatty acid as phase change material (PCM). Solar Energy, 2014, 102, 333-337.	2.9	43
12	Multi-response analysis in the processing of poly (methyl methacrylate) nano-fibres membrane by electrospinning based on response surface methodology: Fibre diameter and bead formation. Measurement: Journal of the International Measurement Confederation, 2015, 65, 193-206.	2.5	39
13	Preparation and characterisation of microencapsulated paraffin wax with polyaniline-based polymer shells for thermal energy storage. Materials Research Innovations, 2014, 18, S6-480-S6-484.	1.0	28
14	Thermo-physical stability of fatty acid eutectic mixtures subjected to accelerated aging for thermal energy storage (TES) application. Applied Thermal Engineering, 2014, 66, 328-334.	3.0	26
15	Effects of steam on the kinetics of calcium carbonate calcination. Chemical Engineering Science, 2021, 246, 116987.	1.9	25
16	Comparing the thermodynamic potential of alternative liquid metal oxides for the storage of solar thermal energy. Solar Energy, 2017, 157, 251-258.	2.9	25
17	Prediction and characterization of surface roughness using sandblasting and acid etching process on new non-toxic titanium biomaterial: adaptive-network-based fuzzy inference System. Neural Computing and Applications, 2015, 26, 1751-1761.	3.2	21
18	Thermal Performance and Numerical Simulation of the 1-Pyrene Carboxylic-Acid Functionalized Graphene Nanofluids in a Sintered Wick Heat Pipe. Energies, 2020, 13, 6542.	1.6	19

#	Article	IF	Citations
19	Thermogravimetric analysis of Cu, Mn, Co, and Pb oxides for thermochemical energy storage. Journal of Energy Storage, 2019, 23, 138-147.	3.9	17
20	A systematic study of maghemite/PMMA nano-fibrous composite via an electrospinning process: Synthesis and characterization. Measurement: Journal of the International Measurement Confederation, 2015, 70, 179-187.	2.5	15
21	The energetic performance of a liquid chemical looping cycle with solar thermal energy storage. Energy, 2019, 170, 93-101.	4.5	12
22	Experimental assessment of copper oxide for liquid chemical looping for thermal energy storage. Journal of Energy Storage, 2019, 21, 216-221.	3.9	12
23	Thermal Reliability of Myristic Acid/Palmitic Acid/Sodium Laurate Eutectic Mixture: A Feasibility Study of Accelerated Aging for Thermal Energy Storage Application. Energy Procedia, 2014, 61, 49-54.	1.8	8
24	Thermal and hydraulic performance of a heat exchanger working with carbon-water nanofluid. Heat and Mass Transfer, 2019, 55, 3443-3453.	1.2	8
25	Using Graphene Nanoplatelets Nanofluid in a Closed-Loop Evacuated Tube Solar Collectorâ€"Energy and Exergy Analysis. Journal of Composites Science, 2021, 5, 277.	1.4	6
26	Development of Pb-Free Nanocomposite Solder Alloys. Journal of Composites Science, 2018, 2, 28.	1.4	5
27	Investigation of Thermal Characteristic of Eutectic Fatty Acid/Damar Gum as a Composite Phase Change Material (CPCM). Green Energy and Technology, 2018, , 607-616.	0.4	1