

Mohammad Mahdi Heyhat

List of Publications by Year in descending order

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18
papers

881
citations

687220

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839398

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18
times ranked

701
citing authors

#	ARTICLE	IF	CITATIONS
1	Battery thermal management with thermal energy storage composites of PCM, metal foam, fin and nanoparticle. <i>Journal of Energy Storage</i> , 2020, 28, 101235.	3.9	272
2	Effect of a micro heat sink geometric design on thermo-hydraulic performance: A review. <i>Applied Thermal Engineering</i> , 2020, 170, 114974.	3.0	126
3	Numerical melting performance analysis of a cylindrical thermal energy storage unit using nano-enhanced PCM and multiple horizontal fins. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 75, 560-577.	1.2	91
4	The effect of using nano-silver dispersed water based nanofluid as a passive method for energy efficiency enhancement in a plate heat exchanger. <i>Applied Thermal Engineering</i> , 2016, 102, 311-317.	3.0	69
5	Thermal transport at a nanoparticle-water interface: A molecular dynamics and continuum modeling study. <i>Journal of Chemical Physics</i> , 2019, 150, 114701.	1.2	57
6	Thermo-hydraulic performance of wavy microchannel heat sink with oblique grooved finned. <i>Applied Thermal Engineering</i> , 2021, 189, 116719.	3.0	40
7	Performance evaluation and exergy analysis of a double pipe heat exchanger under air bubble injection. <i>Applied Thermal Engineering</i> , 2018, 143, 582-593.	3.0	38
8	Experimental investigation on the competition between enhancement of electrical and thermal conductivities in water-based nanofluids. <i>Journal of Molecular Liquids</i> , 2018, 268, 169-175.	2.3	37
9	Thermal and exergy analysis of air- nanofluid bubbly flow in a double-pipe heat exchanger. <i>Powder Technology</i> , 2020, 372, 563-577.	2.1	32
10	A cost-effective form-stable PCM composite with modified paraffin and expanded perlite for thermal energy storage in concrete. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1201-1216.	2.0	27
11	Experimental investigation of convective heat transfer and pressure drop of SiC/water nanofluid in a shell and tube heat exchanger. <i>Heat and Mass Transfer</i> , 2020, 56, 2325-2331.	1.2	21
12	Numerical study of heat transfer enhancement from a heated circular cylinder by using nanofluid and transverse oscillation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 935-945.	2.0	17
13	Investigation of wavy microchannel ability on electronic devices cooling with the case study of choosing the most efficient microchannel pattern. <i>Scientific Reports</i> , 2022, 12, 5882.	1.6	17
14	Modeling of a direct absorption parabolic trough collector based on using nanofluid: 4E assessment and water-energy nexus analysis. <i>Energy</i> , 2022, 244, 123170.	4.5	13
15	Effect of liquid cooling on PCR performance with the parametric study of cross-section shapes of microchannels. <i>Scientific Reports</i> , 2021, 11, 16072.	1.6	9
16	Energy, exergy, and environmental assessments of a direct absorption parabolic trough collector based on nanofluid volume absorption approach. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 4230-4255.	1.2	6
17	A numerical scheme for optimizing gas liquid cylindrical cyclone separator. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2017, 231, 836-848.	1.4	5
18	Performance evaluation of nanofluid flow in conical and helical coiled tubes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1351-1362.	2.0	4