

M J Hosseini

List of Publications by Year in descending order

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40
papers

2,505
citations

172207

29
h-index

301761

39
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40
all docs

40
docs citations

40
times ranked

1310
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and computational evolution of a shell and tube heat exchanger as a PCM thermal storage system. <i>International Communications in Heat and Mass Transfer</i> , 2014, 50, 128-136.	2.9	224
2	A combined experimental and computational study on the melting behavior of a medium temperature phase change storage material inside shell and tube heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1416-1424.	2.9	198
3	A numerical method for PCM-based pin fin heat sinks optimization. <i>Energy Conversion and Management</i> , 2015, 103, 542-552.	4.4	187
4	Phase change in multi-tube heat exchangers. <i>Renewable Energy</i> , 2016, 85, 1017-1025.	4.3	168
5	Experimental and numerical evaluation of longitudinally finned latent heat thermal storage systems. <i>Energy and Buildings</i> , 2015, 99, 263-272.	3.1	163
6	Effect of inclination angle on the performance of a shell and tube heat storage unit – An experimental study. <i>Applied Thermal Engineering</i> , 2017, 112, 1497-1509.	3.0	117
7	Nano-enhancement of phase change material in a shell and multi-PCM-tube heat exchanger. <i>Journal of Energy Storage</i> , 2019, 22, 88-97.	3.9	103
8	Analysis of geometrical and operational parameters of PCM in a fin and tube heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2014, 53, 109-115.	2.9	100
9	Analysis of the effect of eccentricity and operational parameters in PCM-filled single-pass shell and tube heat exchangers. <i>Renewable Energy</i> , 2016, 97, 344-357.	4.3	98
10	Improvement of longitudinal fins configuration in latent heat storage systems. <i>Renewable Energy</i> , 2018, 116, 447-457.	4.3	97
11	Numerical study on geometrical specifications and operational parameters of multi-tube heat storage systems. <i>Applied Thermal Engineering</i> , 2016, 109, 351-363.	3.0	67
12	Effect of nanoparticle dispersion and inclination angle on melting of PCM in a shell and tube heat exchanger. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 81, 316-334.	2.7	67
13	Investigation of phase change in a spiral-fin heat exchanger. <i>Applied Mathematical Modelling</i> , 2019, 67, 297-314.	2.2	64
14	Experimental and numerical investigation of circular minichannel heat sinks with various hydraulic diameter for electronic cooling application. <i>Microelectronics Reliability</i> , 2017, 73, 97-105.	0.9	63
15	Some nonlinear heat transfer equations solved by three approximate methods. <i>International Communications in Heat and Mass Transfer</i> , 2007, 34, 1003-1016.	2.9	60
16	Experimental evaluation of cooling performance of circular heat sinks for heat dissipation from electronic chips using nanofluid. <i>Mechanics Research Communications</i> , 2017, 84, 85-89.	1.0	59
17	Thermal analysis of PCM containing heat exchanger enhanced with normal annular fines. <i>Mechanical Sciences</i> , 2015, 6, 221-234.	0.5	53
18	Melting process investigation of phase change materials in a shell and tube heat exchanger enhanced with heat pipe. <i>Renewable Energy</i> , 2019, 138, 378-394.	4.3	48

#	ARTICLE	IF	CITATIONS
19	Investigation of PCM charging for the energy saving of domestic hot water system. <i>Applied Thermal Engineering</i> , 2018, 137, 659-668.	3.0	44
20	Experimental investigation of phase change in a cavity for varying heat flux and inclination angles. <i>Experimental Thermal and Fluid Science</i> , 2017, 88, 594-607.	1.5	43
21	Numerical study on effect of CuO-water nanofluid on cooling performance of two different cross-sectional heat sinks. <i>Advanced Powder Technology</i> , 2017, 28, 1495-1504.	2.0	41
22	Thermodynamic analysis of a packed bed latent heat thermal storage system simulated by an effective packed bed model. <i>Energy</i> , 2017, 140, 861-878.	4.5	41
23	Inner pipe downward movement effect on melting of PCM in a double pipe heat exchanger. <i>Applied Mathematics and Computation</i> , 2018, 316, 30-42.	1.4	41
24	A parametric investigation of a PCM-based pin fin heat sink. <i>Mechanical Sciences</i> , 2015, 6, 65-73.	0.5	40
25	Thermal and hydrodynamic characteristics of water-based suspensions of Al ₂ O ₃ nanoparticles in a novel minichannel heat sink. <i>Journal of Molecular Liquids</i> , 2017, 230, 550-556.	2.3	40
26	Numerical simulation of melting between two elliptical cylinders. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 577-586.	3.4	40
27	Forced convective heat transfer of nanofluid as a coolant flowing through a heat sink: Experimental and numerical study. <i>Journal of Molecular Liquids</i> , 2017, 248, 264-270.	2.3	36
28	Phase change in spiral coil heat storage systems. <i>Sustainable Cities and Society</i> , 2018, 38, 145-157.	5.1	36
29	Natural convection of nanoparticle-water mixture near its density inversion in a rectangular enclosure. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 131-137.	2.9	31
30	Effect of helical diameter on the performance of shell and helical tube heat exchanger: An experimental approach. <i>Sustainable Cities and Society</i> , 2019, 44, 691-701.	5.1	31
31	Experimental Investigation of Phase Change inside a Finned-Tube Heat Exchanger. <i>Journal of Engineering (United States)</i> , 2014, 2014, 1-11.	0.5	28
32	Numerical study on the convective heat transfer of nanofluid in a triangular minichannel heat sink using the Eulerian-Eulerian two-phase model. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 185-196.	1.2	22
33	Melting of Nanoparticle-Enhanced Phase Change Material inside Shell and Tube Heat Exchanger. <i>Journal of Engineering (United States)</i> , 2013, 2013, 1-8.	0.5	20
34	He's variational iteration method for solving a semi-linear inverse parabolic equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 370, 275-280.	0.9	19
35	Solution of Temperature Distribution in a Radiating Fin Using Homotopy Perturbation Method. <i>Mathematical Problems in Engineering</i> , 2009, 2009, 1-8.	0.6	7
36	Application of Homotopy Perturbation Method in Nonlinear Heat Diffusion-Convection-Reaction Equations. <i>Open Mechanics Journal</i> , 2007, 1, 20-25.	0.5	4

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37	Differential Transformation Method for Temperature Distribution in a Radiating Fin. Heat Transfer Research, 2011, 42, 403-414.	0.9	2
38	Heat Transfer Enhancement in Pulsating Flows through Parallel Bluff Plates. Journal of Enhanced Heat Transfer, 2010, 17, 169-182.	0.5	2
39	Application of the DTM to Nonlinear Cases Arising in Fluid Flows with Variable Viscosity. Acta Physica Polonica A, 2012, 122, 96-102.	0.2	1
40	THE EFFECT OF BLOCKAGE RATIO ON HEAT TRANSFER AND ENTROPY GENERATION IN PULSATING FLOW THROUGH PARALLEL BLUFF PLATES. Heat Transfer Research, 2015, 46, 1123-1145.	0.9	0