Ehsan Abedini

List of Publications by Year
in descending order

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21	437	840119 11	839053 18
papers	citations	h-index	g-index

21	21	21	393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predicting the effects of magnesium oxide nanoparticles and temperature on the thermal conductivity of water using artificial neural network and experimental data. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 87, 242-247.	1.3	100
2	Numerical investigation of subcooled flow boiling of a nanofluid. International Journal of Thermal Sciences, 2013, 64, 232-239.	2.6	45
3	Numerical investigation of vapor volume fraction in subcooled flow boiling of a nanofluid. Journal of Molecular Liquids, 2017, 238, 281-289.	2.3	41
4	How the dispersion of magnesium oxide nanoparticles effects on the viscosity of water-ethylene glycol mixture: Experimental evaluation and correlation development. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 87, 273-280.	1.3	37
5	Periodic mixed convection of a nanofluid in a cavity with top lid sinusoidal motion. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 2149-2160.	1.1	36
6	Study on parameters effective on the performance of a humidification-dehumidification seawater greenhouse using support vector regression. Desalination, 2018, 435, 235-245.	4.0	35
7	Experimental investigation and comparison of subcooled flow boiling of TiO₂ nanofluid in a vertical and horizontal tube. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 1742-1753.	1.1	27
8	Experimental investigation and simulation of flow boiling of nanofluids in different flow directions. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 87, 248-253.	1.3	27
9	Experimental study of transition flow from single phase to two phase flow boiling in nanofluids. Journal of Molecular Liquids, 2017, 231, 11-19.	2.3	26
10	Computational fluid dynamics on the hydrodynamic characteristics of the conical cap tray. Korean Journal of Chemical Engineering, 2017, 34, 969-976.	1.2	14
11	Correlations for estimating critical heat flux (CHF) of nanofluid flow boiling. International Journal of Heat and Mass Transfer, 2019, 139, 69-76.	2.5	13
12	Evaluation of operational parameters for drying shrimps in a cabinet hybrid dryer. Solar Energy, 2022, 233, 221-229.	2.9	10
13	Experimental investigation of subcooled flow boiling of water/TiO2 nanofluid in a horizontal tube. Thermal Science, 2016, 20, 99-108.	0.5	9
14	Numerical investigation of critical heat flux in subcooled flow boiling of nanofluids. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2295-2308.	2.0	8
15	Numerical investigation of surface roughness effect on pool boiling heat transfer of Al₂O₃/water nanofluid. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 1535-1549.	1.1	3
16	Modeling of Fluid Flow and Heat Transfer in Laser Welding with a Moving Heat Source. Advanced Materials Research, 0, 622-623, 618-622.	0.3	2
17	Numerical investigation of flow boiling of refrigerant-based nanofluids and proposing correlations for heat transfer. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2020, 234, 386-393.	1.4	2
18	Visualization of pool boiling and occurring critical heat flux on coiled wire. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 34-41.	1.4	1

#	Article	IF	Citations
19	Prediction of critical heat flux in flow boiling process under the effect of different operating parameters. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 895-903.	0.8	1
20	Numerical investigation of the effect of bump and indent inside a vertical tube on the subcooled flow boiling and critical heat flux. Journal of Mechanical Engineering and Sciences, 2020, 14, 6690-6708.	0.3	0
21	Modeling transport phenomena in the shrimp drying process. Solar Energy, 2022, 241, 396-403.	2.9	0