

Hamid Saffari

List of Publications by Year in descending order

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65
papers

1,443
citations

304743

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35
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docs citations

65
times ranked

1074
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of flow characteristics, heat transfer and entropy generation of nanofluid flow inside an annular pipe partially or completely filled with porous media using two-phase mixture model. <i>Energy</i> , 2015, 93, 2451-2466.	8.8	141
2	Effect of electrolyte temperature on porous electrodeposited copper for pool boiling enhancement. <i>Applied Thermal Engineering</i> , 2017, 113, 1097-1106.	6.0	77
3	Surface structuring with inclined minichannels for pool boiling improvement. <i>Applied Thermal Engineering</i> , 2017, 126, 892-902.	6.0	69
4	Numerical investigation of porous rib arrangement on heat transfer and entropy generation of nanofluid flow in an annulus using a two-phase mixture model. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 1251-1273.	2.1	66
5	Thermodynamic analysis and optimization of a geothermal Kalina cycle system using Artificial Bee Colony algorithm. <i>Renewable Energy</i> , 2016, 89, 154-167.	8.9	60
6	Investigation pool boiling heat transfer in U-shaped mesochannel with electrodeposited porous coating. <i>Experimental Thermal and Fluid Science</i> , 2016, 76, 87-97.	2.7	56
7	Magnetic field effects on forced convection flow of a hybrid nanofluid in a cylinder filled with porous media: a numerical study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 2019-2031.	3.6	54
8	Two-phase Euler-Lagrange CFD simulation of evaporative cooling in a Wind Tower. <i>Energy and Buildings</i> , 2009, 41, 991-1000.	6.7	50
9	OPTIMIZATION OF THE C3MR CYCLE WITH GENETIC ALGORITHM. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2010, 34, 433-448.	0.8	47
10	Experimental study of nucleate pool boiling heat transfer improvement utilizing micro/nanoparticles porous coating on copper surfaces. <i>International Journal of Mechanical Sciences</i> , 2021, 196, 106270.	6.7	44
11	Numerical analysis on laminar forced convection improvement of hybrid nanofluid within a U-bend pipe in porous media. <i>International Journal of Mechanical Sciences</i> , 2020, 179, 105659.	6.7	40
12	An experimental investigation of pool boiling augmentation using four-step electrodeposited micro/nanostructured porous surface in distilled water. <i>International Journal of Mechanical Sciences</i> , 2020, 187, 105924.	6.7	37
13	Effect of silver nanoparticle deposition in re-entrant inclined minichannel on bubble dynamics for pool boiling enhancement. <i>Experimental Thermal and Fluid Science</i> , 2017, 82, 390-401.	2.7	34
14	Prediction of hydrodynamic entrance length for single and two-phase flow in helical coils. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 86, 9-21.	3.6	33
15	Optimization of a modified double-turbine Kalina cycle by using Artificial Bee Colony algorithm. <i>Applied Thermal Engineering</i> , 2015, 91, 19-32.	6.0	32
16	Numerical analysis on forced convection enhancement in an annulus using porous ribs and nanoparticle addition to base fluid. <i>Journal of Central South University</i> , 2019, 26, 1089-1098.	3.0	31
17	Investigation of entropy generation in a helically coiled tube in flow boiling condition under a constant heat flux. <i>International Journal of Refrigeration</i> , 2015, 60, 217-233.	3.4	30
18	Effects of different internal designs of traditional wind towers on their thermal behavior. <i>Energy and Buildings</i> , 2013, 62, 51-58.	6.7	29

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19	Optimal condition for fabricating superhydrophobic Aluminum surfaces with controlled anodizing processes. <i>Applied Surface Science</i> , 2018, 435, 1322-1328.	6.1	29
20	Effect of Nanostructured Microporous Surfaces on Pool Boiling Augmentation. <i>Heat Transfer Engineering</i> , 2019, 40, 762-771.	1.9	28
21	The effect of bubble on pressure drop reduction in helical coil. <i>Experimental Thermal and Fluid Science</i> , 2013, 51, 251-256.	2.7	27
22	Effects of geometry and dimension of micro/nano-structures on the heat transfer in dropwise condensation: A theoretical study. <i>Applied Thermal Engineering</i> , 2018, 137, 440-450.	6.0	26
23	Theoretical study of stable dropwise condensation on an inclined micro/nano-structured tube. <i>International Journal of Refrigeration</i> , 2017, 75, 141-154.	3.4	24
24	Experimental study of pool boiling enhancement for surface structuring with inclined intersected mesochannels using WEDM method on copper surfaces. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 1849-1861.	3.6	23
25	A New Alpha-function for the Peng-Robinson Equation of State: Application to Natural Gas. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 1155-1161.	3.5	22
26	Recent Advances in the Critical Heat Flux Amelioration of Pool Boiling Surfaces Using Metal Oxide Nanoparticle Deposition. <i>Energies</i> , 2020, 13, 4026.	3.1	21
27	Experimental and semi-analytical investigation of heat transfer in nucleate pool boiling by considering surface structuring methods. <i>Experimental Heat Transfer</i> , 2021, 34, 293-313.	3.2	20
28	The prediction of bubble departure and lift-off radii in vertical U-shaped channel under subcooled flow boiling based on forces balance analysis. <i>International Journal of Thermal Sciences</i> , 2019, 142, 316-331.	4.9	19
29	Theoretical modeling and numerical solution of stratified condensation in inclined tubes. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 2587-2596.	1.5	18
30	The study of entropy generation during flow boiling in a micro-fin tube. <i>International Journal of Refrigeration</i> , 2016, 68, 76-93.	3.4	18
31	Optimal condition for fabricating superhydrophobic copper surfaces with controlled oxidation and modification processes. <i>Materials Letters</i> , 2017, 189, 62-65.	2.6	17
32	Experimental investigation of pool boiling heat transfer enhancement using electrodeposited open-cell metal foam. <i>International Journal of Thermal Sciences</i> , 2022, 176, 107536.	4.9	16
33	Numerical study of the influence of geometrical characteristics of a vertical helical coil on a bubbly flow. <i>Journal of Applied Mechanics and Technical Physics</i> , 2014, 55, 957-969.	0.5	15
34	Assessment of heat transfer enhancement technique in flow boiling conditions based on entropy generation analysis: twisted-tape tube. <i>Heat and Mass Transfer</i> , 2020, 56, 429-443.	2.1	15
35	Investigation of Forced Convection Enhancement and Entropy Generation of Nanofluid Flow through a Corrugated Minichannel Filled with a Porous Media. <i>Entropy</i> , 2020, 22, 1008.	2.2	14
36	Impact of dimensional characteristics of low-conductive channels on the enhancement of pool boiling: An experimental analysis. <i>International Journal of Mechanical Sciences</i> , 2021, 209, 106710.	6.7	14

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37	Energy Transfer Enhancement Inside an Annulus Using Gradient Porous Ribs and Nanofluids. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	14
38	Mathematical Modeling And Numerical Simulation of Dropwise Condensation on an Inclined Circular Tube. Journal of Aerospace Technology and Management, 2017, 9, 476-488.	0.3	13
39	Preparing superhydrophobic copper surfaces with rose petal or lotus leaf property using a simple etching approach. Materials Research Express, 2017, 4, 055014.	1.6	12
40	An experimental investigation on bubbles departure characteristics during sub-cooled flow boiling in a vertical U-shaped channel utilizing high-speed photography. Thermal Science and Engineering Progress, 2021, 22, 100828.	2.7	9
41	On the effect of silver nanoparticles deposition on porous copper foams on pool boiling heat transfer enhancement: an experimental visualization. Heat and Mass Transfer, 2022, 58, 447-466.	2.1	9
42	Dropwise condensation heat transfer enhancement on surfaces micro/nano structured by a two-step electrodeposition process. Journal of Central South University, 2019, 26, 1065-1076.	3.0	8
43	Thermodynamic analysis of entropy generation due to energy transfer through circular surfaces under pool boiling condition. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2495-2508.	3.6	7
44	Surface Modification Utilizing Photolithography Process for Pool Boiling Enhancement: An Experimental Study. Heat Transfer Engineering, 2022, 43, 1008-1024.	1.9	7
45	Experimental parametric study of hierarchical micro/nano electrodeposited (six-step) pattern with respect to volcano-shape morphology in pool boiling performance augmentation. Experimental Heat Transfer, 2023, 36, 210-233.	3.2	7
46	Theoretical analysis on condensation heat transfer on microstructured hybrid hydrophobic-hydrophilic tube. Heat and Mass Transfer, 2022, 58, 1207-1221.	2.1	7
47	Experimental analysis of dropwise condensation heat transfer on a finned tube: Impact of pitch size. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2022, 236, 752-759.	1.4	7
48	An experimental study on the influence of radial pressure gradient on bubbles dynamic behavior in subcooled flow boiling. Thermal Science and Engineering Progress, 2020, 16, 100468.	2.7	6
49	The effect of droplet morphology on the heat transfer performance of micro-/nanostructured surfaces in dropwise condensation. Journal of Thermal Analysis and Calorimetry, 2019, 138, 2979-2988.	3.6	5
50	Experimental study of electrospray deposition method parameters on TiO ₂ coating structure in pool boiling performance enhancement. Experimental Heat Transfer, 2022, 35, 1038-1058.	3.2	5
51	Effect of virtual mass force on prediction of pressure changes in condensing tubes. Thermal Science, 2012, 16, 613-622.	1.1	4
52	Influence of different parameters of preparing self-assembled monolayers on copper surfaces in the dropwise condensation heat transfer: an experimental study. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	4
53	Experimental analysis of fluid displacement and viscous fingering instability in fractured porous medium: effect of injection rate. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	4
54	Numerical investigation on entropy generation in the dropwise condensation inside an inclined pipe. Heat Transfer, 2022, 51, 551-577.	3.0	3

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55	Numerical investigation of flow boiling heat transfer in helically coiled tube under constant heat flux. <i>Thermal Science and Engineering</i> , 2018, 1, .	0.0	3
56	Theoretical analysis on condensation heat transfer on the hydrophobic-hydrophilic hybrid surfaces with the impact of the Marangoni convection. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2023, 237, 658-672.	2.5	3
57	Experimental study of finger behavior due to miscible viscous and gravity contrast in a porous model. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 2434-2447.	2.3	2
58	PREDICTION OF NUCLEATE POOL BOILING ON HYDROPHILIC SURFACES BY CONSIDERING THE DYNAMIC CONTACT ANGLE EFFECT ON ISOLATED BUBBLE. <i>Heat Transfer Research</i> , 2018, 49, 423-435.	1.6	2
59	Experimental investigation of surface finishing technique's impact on subcooled flow boiling heat transfer enhancement: sandpapering and sandblasting. <i>Heat and Mass Transfer</i> , 2022, 58, 1785-1810.	2.1	2
60	Modeling and Exergy and Exergoeconomic Optimization of a Gas Turbine Power Plant Using a Genetic Algorithm. , 2010, , .		1
61	Length of the Entrance, Fully developed and hydraulic characteristics of bubbly flows in helical coils. , 2014, , .		1
62	NUMERICAL ANALYSIS OF VISCOUS FINGERING INSTABILITY DUE TO MISCIBLE DISPLACEMENT. <i>Journal of Applied Mechanics and Technical Physics</i> , 2020, 61, 539-545.	0.5	1
63	Numerical scrutinization of dropwise condensation heat transfer on an inclined surface. <i>Heat Transfer</i> , 0, , .	3.0	1
64	Influence of variation of pipe diameter on pressure drop predictions of the new modified three-fluid model inside condensing vertical pipes. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2016, 230, 36-44.	2.5	0
65	Thermally induced oxidative growth of copper oxide nanowire on dendritic micropowder and reductive conversion to copper nanowire. <i>Micro and Nano Letters</i> , 2016, 11, 412-415.	1.3	0