Cristiano Bigonha TibiriÃ§Ã¡

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/570068/publications.pdf

Version: 2024-02-01

22	777	687363 13	713466 21
papers	citations	h-index	g-index

22	22	22	457
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flow boiling in micro-scale channels â€“ Synthesized literature review. International Journal of Refrigeration, 2013, 36, 301-324.	3.4	119
2	Flow boiling heat transfer of R134a and R245fa in a 2.3 mm tube. International Journal of Heat and Mass Transfer, 2010, 53, 2459-2468.	4.8	105
3	Film thickness measurement techniques applied to micro-scale two-phase flow systems. Experimental Thermal and Fluid Science, 2010, 34, 463-473.	2.7	89
4	Flow patterns and bubble departure fundamental characteristics during flow boiling in microscale channels. Experimental Thermal and Fluid Science, 2014, 59, 152-165.	2.7	74
5	Heat transfer during convective boiling inside microchannels. International Journal of Heat and Mass Transfer, 2016, 93, 566-583.	4.8	70
6	Saturated flow boiling heat transfer and critical heat flux in small horizontal flattened tubes. International Journal of Heat and Mass Transfer, 2012, 55, 7873-7883.	4.8	49
7	Critical heat flux in a 0.38mm microchannel and actions for suppression of flow boiling instabilities. Experimental Thermal and Fluid Science, 2015, 67, 48-56.	2.7	40
8	Evaluation of flow patterns and elongated bubble characteristics during the flow boiling of halocarbon refrigerants in a micro-scale channel. Experimental Thermal and Fluid Science, 2010, 34, 766-775.	2.7	37
9	A complete set of simple and optimized correlations for microchannel flow boiling and two-phase flow applications. Applied Thermal Engineering, 2017, 126, 774-795.	6.0	36
10	Two-Phase Frictional Pressure Drop and Flow Boiling Heat Transfer for R245fa in a 2.32-mm Tube. Heat Transfer Engineering, 2011, 32, 1139-1149.	1.9	30
11	Heat transfer coefficient: a review of measurement techniques. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	23
12	Flow Boiling Characteristics for R1234ze(E) in 1.0 and 2.2 mm Circular Channels. Journal of Heat Transfer, 2012, 134, .	2.1	21
13	Flow Boiling Phenomenological Differences Between Micro- and Macroscale Channels. Heat Transfer Engineering, 2015, 36, 937-942.	1.9	21
14	Numerical and experimental study of the transient behavior of a domestic vapor compression refrigeration system â€“ Influence of refrigerant charge and ambient temperature. Applied Thermal Engineering, 2021, 190, 116728.	6.0	14
15	Overview of Void Fraction Measurement Techniques, Databases and Correlations for Two-Phase Flow in Small Diameter Channels. Fluids, 2020, 5, 216.	1.7	13
16	Experimental Investigation of Flow Boiling Pressure Drop of R134A in a Microscale Horizontal Smooth Tube. Journal of Thermal Science and Engineering Applications, 2011, 3, .	1.5	12
17	Critical Heat Flux of R134a and R245fa Inside Small-Diameter Tubes. Heat Transfer Engineering, 2013, 34, 492-499.	1.9	11
18	A modified approach for numerical simulation of capillary tube-suction line heat exchangers. Applied Thermal Engineering, 2016, 102, 283-292.	6.0	6

#	Article	IF	Citations
19	An experimental study of refrigerant expansion inside coiled adiabatic capillary tubes and development of a general correlation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	3
20	A detailed study of the transient behavior of dual-skin chest-freezer with R290. International Journal of Refrigeration, 2021, 131, 300-311.	3.4	3
21	Thermodynamic Irreversibility Analysis of Dual-Skin Chest-Freezer. Entropy, 2022, 24, 453.	2.2	1
22	Flow Boiling and Two-Phase Flows in Single Microchannels and Microchannel Heat Sinks: Fundamentals, Differences, and New Areas for Research. , 2018, , 185-231.		0