

# Mohamed M Mahmoud

## List of Publications by Year in descending order

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19  
papers

995  
citations

759233

12  
h-index

940533

16  
g-index

19  
all docs

19  
docs citations

19  
times ranked

640  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow boiling in microchannels: Fundamentals and applications. Applied Thermal Engineering, 2017, 115, 1372-1397.	6.0	363
2	Effect of hydraulic diameter and aspect ratio on single phase flow and heat transfer in a rectangular microchannel. Applied Thermal Engineering, 2017, 115, 793-814.	6.0	108
3	Heat transfer correlation for flow boiling in small to micro tubes. International Journal of Heat and Mass Transfer, 2013, 66, 553-574.	4.8	81
4	Single phase flow pressure drop and heat transfer in rectangular metallic microchannels. Applied Thermal Engineering, 2016, 93, 1324-1336.	6.0	74
5	Flow boiling heat transfer of R134a in multi microchannels. International Journal of Heat and Mass Transfer, 2017, 110, 422-436.	4.8	61
6	Condensation flow patterns and heat transfer in horizontal microchannels. Experimental Thermal and Fluid Science, 2018, 90, 153-173.	2.7	57
7	Flow boiling of HFE-7100 in microchannels: Experimental study and comparison with correlations. International Journal of Heat and Mass Transfer, 2019, 140, 100-128.	4.8	53
8	A study of discrepancies in flow boiling results in small to microdiameter metallic tubes. Experimental Thermal and Fluid Science, 2012, 36, 126-142.	2.7	46
9	Effect of aspect ratio on flow boiling characteristics in microchannels. International Journal of Heat and Mass Transfer, 2021, 164, 120587.	4.8	36
10	Flow Boiling of Water in a Rectangular Metallic Microchannel. Heat Transfer Engineering, 2021, 42, 492-516.	1.9	32
11	Surface effects in flow boiling of R134a in microtubes. International Journal of Heat and Mass Transfer, 2011, 54, 3334-3346.	4.8	26
12	Flow pattern transition models and correlations for flow boiling in mini-tubes. Experimental Thermal and Fluid Science, 2016, 70, 270-282.	2.7	21
13	Flow boiling in copper and aluminium microchannels. International Journal of Heat and Mass Transfer, 2022, 194, 123101.	4.8	12
14	Flow Boiling Pressure Drop of R134a in Microdiameter Tubes: Experimental Results and Assessment of Correlations. Heat Transfer Engineering, 2014, 35, 178-192.	1.9	8
15	Flow Boiling in Mini to Microdiameter Channels. , 2018, , 233-301.		7
16	One-Dimensional Semimechanistic Model for Flow Boiling Pressure Drop in Small to Micro Passages. Heat Transfer Engineering, 2011, 32, 1150-1159.	1.9	4
17	Flow Boiling of R134a and R245fa in a 1.1 mm Diameter Tube. , 2013, , .		3
18	Experiments and Correlations for Single-Phase Convective Heat Transfer in Brazed Plate Heat Exchangers. Heat Transfer Engineering, 2023, 44, 211-231.	1.9	2

#	ARTICLE	IF	CITATIONS
19	A Study of Discrepancies in Flow Boiling Results in Small to Micro Diameter Metallic Tubes. , 2011, , .		1