

Patrick A Walsh

List of Publications by Year in descending order

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43
papers

734
citations

686830

13
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580395

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44
all docs

44
docs citations

44
times ranked

444
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure drop in two phase slug/bubble flows in mini scale capillaries. International Journal of Multiphase Flow, 2009, 35, 879-884.	1.6	94
2	Heat transfer model for gas-liquid slug flows under constant flux. International Journal of Heat and Mass Transfer, 2010, 53, 3193-3201.	2.5	82
3	Heat Transfer Enhancement Using Laminar Gas-Liquid Segmented Plug Flows. Journal of Heat Transfer, 2011, 133, .	1.2	77
4	Review and extensions to film thickness and relative bubble drift velocity prediction methods in laminar Taylor or slug flows. International Journal of Multiphase Flow, 2013, 55, 32-42.	1.6	69
5	Active cooling of a mobile phone handset. Applied Thermal Engineering, 2010, 30, 2363-2369.	3.0	56
6	Prandtl and capillary effects on heat transfer performance within laminar liquid-gas slug flows. International Journal of Heat and Mass Transfer, 2011, 54, 4752-4761.	2.5	43
7	An Experimental Study on the Design of Miniature Heat Sinks for Forced Convection Air Cooling. Journal of Heat Transfer, 2009, 131, .	1.2	34
8	Thermal Management of Low Profile Electronic Equipment Using Radial Fans and Heat Sinks. Journal of Heat Transfer, 2008, 130, .	1.2	32
9	Simple Models for Laminar Thermally Developing Slug Flow in Noncircular Ducts and Channels. Journal of Heat Transfer, 2010, 132, .	1.2	32
10	Review and extension of pressure drop models applied to Taylor flow regimes. International Journal of Multiphase Flow, 2015, 68, 1-9.	1.6	23
11	Profile Scaling of Miniature Centrifugal Fans. Heat Transfer Engineering, 2009, 30, 130-137.	1.2	22
12	Novel micro-PIV study enables a greater understanding of nanoparticle suspension flows: nanofluids. Microfluidics and Nanofluidics, 2010, 8, 837-842.	1.0	22
13	An Experimental Investigation of Heat Transfer Enhancement Mechanisms in Microencapsulated Phase-Change Material Slurry Flows. Heat Transfer Engineering, 2013, 34, 223-234.	1.2	20
14	Laminar Slug Flow: Heat Transfer Characteristics With Constant Heat Flux Boundary. , 2009, , .		13
15	Thermal Analysis of Miniature Low Profile Heat Sinks With and Without Fins. Journal of Electronic Packaging, Transactions of the ASME, 2009, 131, .	1.2	13
16	A Novel Approach to Low Profile Heat Sink Design. Journal of Heat Transfer, 2010, 132, .	1.2	13
17	Viscous Scaling Phenomena in Miniature Centrifugal Flow Cooling Fans: Theory, Experiments and Correlation. Journal of Electronic Packaging, Transactions of the ASME, 2010, 132, .	1.2	10
18	Factors affecting temperature measurement using phase measurement interferometry in small scale devices. Experimental Thermal and Fluid Science, 2006, 30, 853-862.	1.5	8

#	ARTICLE	IF	CITATIONS
19	On the out-of-plane divergence of streamtubes in planar mini-scale flow focusing devices. International Journal of Heat and Fluid Flow, 2007, 28, 44-53.	1.1	8
20	Heat Transfer Enhancement Using Laminar Gas-Liquid Segmented Fluid Streams. , 2009, , .		8
21	Acoustic Emissions From Active Cooling Solutions for Portable Devices. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 776-783.	1.4	8
22	Heat transfer in gas-liquid and liquid-liquid two phase plug flow systems. , 2010, , .		8
23	The Effects of Diameter and Rotational Speed on the Aerodynamic Performance of Low Profile Miniature Radial Flow Fans. , 2007, , .		6
24	Scaling of Flow Characteristics and Power Consumption With Profile Height for Miniature Centrifugal Fans. , 2007, , .		4
25	On viscosity measurements of nanofluids in micro and mini tube flow. Journal Physics D: Applied Physics, 2009, 42, 165502.	1.3	4
26	An experimental study on the performance of miniature heat sinks for forced convection air cooling. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , .	0.0	3
27	The performance of active cooling in a mobile phone. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , .	0.0	3
28	Characterisation of Stability Criteria for Pressure Driven Flows in Small Length Scale Fluidic Devices. , 2005, , 565.		2
29	Acoustic emissions from active cooling solutions for portable devices. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , .	0.0	2
30	An Investigation of the Pressure Drop Associated With Liquid-Liquid Slug Flows. , 2013, , .		2
31	Heat Transfer Characteristics of Liquid-Gas Taylor Flows incorporating Microencapsulated Phase Change Materials. Journal of Physics: Conference Series, 2014, 525, 012022.	0.3	2
32	On the Characterisation of Finned and Finless Heat Sinks for Portable Electronics. , 2007, , .		2
33	The Effects of Reynolds Number on the Aerodynamic Performance of Geometrically Similar Fans. , 2008, , .		1
34	On the Performance of Miniature Centrifugal Fans With Varying Blade Cord Length. , 2008, , .		1
35	Simple Models for Laminar Thermally Developing Slug Flow in Non-Circular Ducts and Channels. , 2009, , .		1
36	An Experimental and Theoretical Study of Finned and Finless Heat Sinks for Low Profile Applications. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
37	Heat transfer enhancement with laminar liquid-gas slug flows. , 2010, , .		1
38	FINLESS Heat Sinks, High Performance and Low Cost for Low Profile Cooling Applications. , 2011, , .		1
39	Finless Heat Sinks, High Performance and Low Cost for Low Profile Cooling Applications. Journal of Thermal Science and Engineering Applications, 2013, 5, .	0.8	1
40	Thermal Management of Low Profile Applications. , 2007, , .		1
41	Flow Characteristics of Aluminium Oxide Nanofluids. , 2009, , .		0
42	Heat Transfer Characteristics of Microencapsulated Phase Change Material Slurry Flows Under a Constant Heat Flux Boundary. , 2011, , .		0
43	An Automated Approach to Developing Compact and Accurate Building Models Utilising an Inverse Heat Transfer Approach. , 2013, , .		0