

P Stephan

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

929
citations

516710

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677142

22
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all docs

23
docs citations

23
times ranked

598
citing authors

#	ARTICLE	IF	CITATIONS
1	A new model for nucleate boiling heat transfer. <i>Heat and Mass Transfer</i> , 1994, 30, 119-125.	0.2	138
2	Microscale temperature measurement at an evaporating liquid meniscus. <i>Experimental Thermal and Fluid Science</i> , 2002, 26, 157-162.	2.7	108
3	Nanofiber coating of surfaces for intensification of drop or spray impact cooling. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 5814-5826.	4.8	78
4	Measurement of water falling film thickness to flat plate using confocal chromatic sensing technique. <i>Experimental Thermal and Fluid Science</i> , 2009, 33, 273-283.	2.7	77
5	Contact line behavior for a highly wetting fluid under superheated conditions. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 2664-2675.	4.8	64
6	Marangoni-induced deformation and rupture of a liquid film on a heated microstructured wall. <i>Physics of Fluids</i> , 2006, 18, 012104.	4.0	62
7	Evaporation of a thin viscous liquid film sheared by gas in a microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2014, 68, 527-541.	4.8	51
8	Experimental investigation of evaporative heat transfer characteristics at the 3-phase contact line. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 1036-1041.	2.7	48
9	Evaporation of thin liquid droplets on heated surfaces. <i>Heat and Mass Transfer</i> , 2007, 43, 649-657.	2.1	41
10	Heat transfer during drop impingement onto a hot wall: The influence of wall superheat, impact velocity, and drop diameter. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119661.	4.8	40
11	Analysis of Falling Film Evaporation on Grooved Surfaces. <i>Journal of Enhanced Heat Transfer</i> , 2003, 10, 445-458.	1.1	34
12	Influence of heat conduction in the wall on nucleate boiling heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2000, 43, 2193-2203.	4.8	32
13	Analysis of flow patterns emerging during evaporation in parallel microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 226-239.	4.8	30
14	Evaporation of Falling and Shear-Driven Thin Films on Smooth and Grooved Surfaces. <i>Flow, Turbulence and Combustion</i> , 2005, 75, 85-104.	2.6	26
15	Local heat flow and temperature fluctuations in wall and fluid in nucleate boiling systems. <i>Heat and Mass Transfer</i> , 2009, 45, 919-928.	2.1	23
16	On the transition between contact line evaporation and microlayer evaporation during the dewetting of a superheated wall. <i>International Journal of Thermal Sciences</i> , 2019, 145, 106025.	4.9	19
17	Experimental investigation of hydrodynamics and heat transport during horizontal coalescence of two drops impinging a hot wall. <i>Experimental Thermal and Fluid Science</i> , 2022, 131, 110520.	2.7	13
18	Frequency response of a surface thermometer based on unencapsulated thermochromic liquid crystals. <i>Experimental Thermal and Fluid Science</i> , 2007, 31, 687-699.	2.7	10

#	ARTICLE	IF	CITATIONS
19	Local Heat Flux Investigation During Pool Boiling Single Bubble Cycles Under Reduced Gravity. Heat Transfer Engineering, 2014, 35, 482-491.	1.9	9
20	Influence of nanofiber coating thickness and drop volume on spreading, imbibition, and evaporation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 631, 127450.	4.7	9
21	Heat transfer during pulsating liquid jet impingement onto a vertical wall. Heat and Mass Transfer, 2021, 57, 617-629.	2.1	7
22	Temperature measurement using infrared thermometry within semi-transparent media. Experimental Heat Transfer, 2019, 32, 545-565.	3.2	6
23	A Concept for a Miniature, Mechanically Pumped Two-Phase Cooling Loop. , 0, , .		4