

Zhong Lan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/297278/publications.pdf>

Version: 2024-02-01

35
papers

1,081
citations

471509

17
h-index

414414

32
g-index

35
all docs

35
docs citations

35
times ranked

924
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation on steam condensation heat transfer enhancement with vertically patterned hydrophobic-hydrophilic hybrid surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2015, 83, 27-38.	4.8	152
2	Wetting Transition of Condensed Droplets on Nanostructured Superhydrophobic Surfaces: Coordination of Surface Properties and Condensing Conditions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13770-13777.	8.0	116
3	Analysis of droplet jumping phenomenon with lattice Boltzmann simulation of droplet coalescence. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	103
4	Wetting Mode Evolution of Steam Dropwise Condensation on Superhydrophobic Surface in the Presence of Noncondensable Gas. <i>Journal of Heat Transfer</i> , 2012, 134, .	2.1	59
5	Numerical Simulation of Coalescence-Induced Jumping of Multidroplets on Superhydrophobic Surfaces: Initial Droplet Arrangement Effect. <i>Langmuir</i> , 2017, 33, 6258-6268.	3.5	55
6	Self-enhancement of droplet jumping velocity: the interaction of liquid bridge and surface texture. <i>RSC Advances</i> , 2016, 6, 99314-99321.	3.6	54
7	Critical size ratio for coalescence-induced droplet jumping on superhydrophobic surfaces. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	54
8	Molecular clustering physical model of steam condensation and the experimental study on the initial droplet size distribution. <i>International Journal of Thermal Sciences</i> , 2009, 48, 2228-2236.	4.9	50
9	Macrottextures-induced jumping relay of condensate droplets. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	46
10	Rapid and Persistent Suction Condensation on Hydrophilic Surfaces for High-Efficiency Water Collection. <i>Nano Letters</i> , 2021, 21, 7411-7418.	9.1	45
11	Heterogeneous nucleation capability of conical microstructures for water droplets. <i>RSC Advances</i> , 2015, 5, 812-818.	3.6	44
12	Directional Movement of Droplets in Grooves: Suspended or Immersed?. <i>Scientific Reports</i> , 2016, 6, 18836.	3.3	37
13	Macrottextures-enabled self-propelling of large condensate droplets. <i>Chemical Engineering Journal</i> , 2021, 405, 126901.	12.7	32
14	Behavioral patterns of drop impingement onto rigid substrates with a wide range of wettability and different surface temperatures. <i>AIChE Journal</i> , 2009, 55, 1983-1992.	3.6	23
15	Numerical simulation on vapor absorption by wavy lithium bromide aqueous solution films. <i>Heat and Mass Transfer</i> , 2011, 47, 1611-1619.	2.1	19
16	Heat Transfer Characteristics of Falling Film Process on Coated Division Tubes: Effect of the Surface Configurations. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6622-6629.	3.7	18
17	Morphology evolution and dynamics of droplet coalescence on superhydrophobic surfaces. <i>AIChE Journal</i> , 2018, 64, 2913-2921.	3.6	18
18	Evolution of transient cluster/droplet size distribution in a heterogeneous nucleation process. <i>RSC Advances</i> , 2014, 4, 31692.	3.6	17

#	ARTICLE	IF	CITATIONS
19	Preferential Vapor Nucleation on Hierarchical Tapered Nanowire Bunches. <i>Langmuir</i> , 2021, 37, 774-784.	3.5	17
20	Effect of a Superhydrophobic Surface Structure on Droplet Jumping Velocity. <i>Langmuir</i> , 2021, 37, 1779-1787.	3.5	16
21	Numerical simulation on wave behaviour and flow dynamics of laminar wavy falling films: Effect of surface tension and viscosity. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 61-68.	1.7	14
22	Heat Transfer and Thermodynamic Performance of LiBr/H ₂ O Absorption Heat Transformer with Vapor Absorption Inside Vertical Spiral Tubes. <i>Heat Transfer Engineering</i> , 2014, 35, 1130-1136.	1.9	14
23	Multiple Bounces and Oscillatory Movement of a Microdroplet in Superhydrophobic Minichannels. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4452-4461.	3.7	14
24	Structure Transition of CuO Nanoparticles in Copper-Silica Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6969-6975.	3.1	13
25	Convection Condensation Heat Transfer of Steam-Air Mixture With Heat Pipe Heat Exchanger. <i>Heat Transfer Engineering</i> , 2014, 35, 600-609.	1.9	13
26	Droplet Regulation and Dropwise Condensation Heat Transfer Enhancement on Hydrophobic-Superhydrophobic Hybrid Surfaces. <i>Heat Transfer Engineering</i> , 2018, 39, 1540-1551.	1.9	12
27	The evolution of droplet impacting on thin liquid film at superhydrophilic surface. <i>Applied Physics Letters</i> , 2017, 111, 231601.	3.3	10
28	Dynamic Behaviors of Condensing Clusters Based on Rayleigh Scattering Experiment. <i>Scientific Reports</i> , 2017, 7, 987.	3.3	4
29	Direct observation of water clusters for surface design. <i>Chemical Engineering Science</i> , 2020, 217, 115475.	3.8	3
30	Experimental Study of Nucleate Boiling Heat Transfer Using Enhanced Space-Confined Structures. <i>Journal of Heat Transfer</i> , 2012, 134, .	2.1	2
31	Experimental study on steam condensation with non-condensable gas in horizontal microchannels. , 2013, , .		2
32	Microcavity-Enabled Local Oscillation of Taylor Bubbles in a Microchannel. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1055-1066.	3.7	2
33	Optimal Operation of an Oscillatory Flow Crystallizer: Coupling Disturbance and Stability. <i>ACS Omega</i> , 2021, 6, 28912-28922.	3.5	2
34	Optimization of an Oscillatory Flow Crystallizer Based on Heat Transfer and Supersaturation Distribution. <i>Chemical Engineering and Technology</i> , 2022, 45, 745-754.	1.5	1
35	Heat and mass transfer enhancement for falling film absorption with coated distribution tubes at high temperature. , 2013, , .		0