Zhong Lan

List of Publications by Year
in descending order

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	Optimization of an Oscillatory Flow Crystallizer Based on Heat Transfer and Supersaturation Distribution. Chemical Engineering and Technology, 2022, 45, 745-754.	1.5	1
2	Macrotextures-enabled self-propelling of large condensate droplets. Chemical Engineering Journal, 2021, 405, 126901.	12.7	32
3	Effect of a Superhydrophobic Surface Structure on Droplet Jumping Velocity. Langmuir, 2021, 37, 1779-1787.	3.5	16
4	Microcavity-Enabled Local Oscillation of Taylor Bubbles in a Microchannel. Industrial & Engineering Chemistry Research, 2021, 60, 1055-1066.	3.7	2
5	Rapid and Persistent Suction Condensation on Hydrophilic Surfaces for High-Efficiency Water Collection. Nano Letters, 2021, 21, 7411-7418.	9.1	45
6	Preferential Vapor Nucleation on Hierarchical Tapered Nanowire Bunches. Langmuir, 2021, 37, 774-784.	3.5	17
7	Optimal Operation of an Oscillatory Flow Crystallizer: Coupling Disturbance and Stability. ACS Omega, 2021, 6, 28912-28922.	3.5	2
8	Direct observation of water clusters for surface design. Chemical Engineering Science, 2020, 217, 115475.	3.8	3
9	Macrotextures-induced jumping relay of condensate droplets. Applied Physics Letters, 2019, 114, .	3.3	46
10	Multiple Bounces and Oscillatory Movement of a Microdroplet in Superhydrophobic Minichannels. Industrial & Engineering Chemistry Research, 2018, 57, 4452-4461.	3.7	14
11	Morphology evolution and dynamics of droplet coalescence on superhydrophobic surfaces. AICHE Journal, 2018, 64, 2913-2921.	3.6	18
12	Droplet Regulation and Dropwise Condensation Heat Transfer Enhancement on Hydrophobic-Superhydrophobic Hybrid Surfaces. Heat Transfer Engineering, 2018, 39, 1540-1551.	1.9	12
13	Dynamic Behaviors of Condensing Clusters Based on Rayleigh Scattering Experiment. Scientific Reports, 2017, 7, 987.	3.3	4
14	Numerical Simulation of Coalescence-Induced Jumping of Multidroplets on Superhydrophobic Surfaces: Initial Droplet Arrangement Effect. Langmuir, 2017, 33, 6258-6268.	3.5	55
15	Wetting Transition of Condensed Droplets on Nanostructured Superhydrophobic Surfaces: Coordination of Surface Properties and Condensing Conditions. ACS Applied Materials & Interfaces, 2017, 9, 13770-13777.	8.0	116
16	Critical size ratio for coalescence-induced droplet jumping on superhydrophobic surfaces. Applied Physics Letters, 2017, 111, .	3.3	54
17	The evolution of droplet impacting on thin liquid film at superhydrophilic surface. Applied Physics Letters, 2017, 111, 231601.	3.3	10
18	Directional Movement of Droplets in Grooves: Suspended or Immersed?. Scientific Reports, 2016, 6, 18836.	3.3	37

#	Article	IF	Citations
19	Self-enhancement of droplet jumping velocity: the interaction of liquid bridge and surface texture. RSC Advances, 2016, 6, 99314-99321.	3.6	54
20	Heterogeneous nucleation capability of conical microstructures for water droplets. RSC Advances, 2015, 5, 812-818.	3.6	44
21	Experimental investigation on steam condensation heat transfer enhancement with vertically patterned hydrophobicâ€“hydrophilic hybrid surfaces. International Journal of Heat and Mass Transfer, 2015, 83, 27-38.	4.8	152
22	Convection Condensation Heat Transfer of Steam-Air Mixture With Heat Pipe Heat Exchanger. Heat Transfer Engineering, 2014, 35, 600-609.	1.9	13
23	Heat Transfer and Thermodynamic Performance of LiBr/H2O Absorption Heat Transformer with Vapor Absorption Inside Vertical Spiral Tubes. Heat Transfer Engineering, 2014, 35, 1130-1136.	1.9	14
24	Evolution of transient cluster/droplet size distribution in a heterogeneous nucleation process. RSC Advances, 2014, 4, 31692.	3.6	17
25	Analysis of droplet jumping phenomenon with lattice Boltzmann simulation of droplet coalescence. Applied Physics Letters, 2013, 102, .	3.3	103
26	Experimental study on steam condensation with non-condensable gas in horizontal microchannels. , 2013, , .		2
27	Heat and mass transfer enhancement for falling film absorption with coated distribution tubes at high temperature. , 2013, , .		0
28	Experimental Study of Nucleate Boiling Heat Transfer Using Enhanced Space-Confined Structures. Journal of Heat Transfer, 2012, 134, .	2.1	2
29	Wetting Mode Evolution of Steam Dropwise Condensation on Superhydrophobic Surface in the Presence of Noncondensable Gas. Journal of Heat Transfer, 2012, 134, .	2.1	59
30	Numerical simulation on wave behaviour and flow dynamics of laminarâ€wavy falling films: Effect of surface tension and viscosity. Canadian Journal of Chemical Engineering, 2012, 90, 61-68.	1.7	14
31	Numerical simulation on vapor absorption by wavy lithium bromide aqueous solution films. Heat and Mass Transfer, 2011, 47, 1611-1619.	2.1	19
32	Heat Transfer Characteristics of Falling Film Process on Coated Division Tubes: Effect of the Surface Configurations. Industrial & Engineering Chemistry Research, 2010, 49, 6622-6629.	3.7	18
33	Behavioral patterns of drop impingement onto rigid substrates with a wide range of wettability and different surface temperatures. AICHE Journal, 2009, 55, 1983-1992.	3.6	23
34	Molecular clustering physical model of steam condensation and the experimental study on the initial droplet size distribution. International Journal of Thermal Sciences, 2009, 48, 2228-2236.	4.9	50
35	Structure Transition of CuO_X Nanoparticles in Copperâ"Silica Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 6969-6975.	3.1	13