

Han Hu

List of Publications by Year in descending order

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27
papers

749
citations

471477

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610883

24
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27
all docs

27
docs citations

27
times ranked

1070
citing authors

#	ARTICLE	IF	CITATIONS
1	Microlayer evaporation governs heat transfer enhancement during pool boiling from microstructured surfaces. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	17
2	Deep learning strategies for critical heat flux detection in pool boiling. <i>Applied Thermal Engineering</i> , 2021, 190, 116849.	6.0	20
3	Role of nanoscale roughness in the heat transfer characteristics of thin film evaporation. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119306.	4.8	17
4	A coupled wicking and evaporation model for prediction of pool boiling critical heat flux on structured surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 373-382.	4.8	25
5	Failure mechanisms of air entrainment in drop impact on lubricated surfaces. <i>Soft Matter</i> , 2017, 13, 2402-2409.	2.7	31
6	Multiscale Modeling of the Three-Dimensional Meniscus Shape of a Wetting Liquid Film on Micro-/Nanostructured Surfaces. <i>Langmuir</i> , 2017, 33, 12028-12037.	3.5	9
7	Solidification of additive-enhanced phase change materials in spherical enclosures with convective cooling. <i>Applied Thermal Engineering</i> , 2017, 111, 134-142.	6.0	33
8	Intrinsic instability of thin liquid films on nanostructured surfaces. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	3
9	Experimental Characterization of Inward Freezing and Melting of Additive-Enhanced Phase-Change Materials Within Millimeter-Scale Cylindrical Enclosures. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	15
10	Heat transfer analysis of PCM slurry flow between parallel plates. <i>International Journal of Heat and Mass Transfer</i> , 2016, 99, 895-903.	4.8	16
11	Viscosity of Water under Electric Field: Anisotropy Induced by Redistribution of Hydrogen Bonds. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4818-4827.	2.6	31
12	Multiscale Modeling of Thin Liquid Films. <i>Springer Series in Materials Science</i> , 2016, , 507-536.	0.6	3
13	Deposition of Colloidal Drops Containing Ellipsoidal Particles: Competition between Capillary and Hydrodynamic Forces. <i>Langmuir</i> , 2016, 32, 11899-11906.	3.5	29
14	Effect of nanostructures on heat transfer coefficient of an evaporating meniscus. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 878-885.	4.8	44
15	Dust ignition of pure and encapsulated paraffin phase change materials. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 40, 298-303.	3.3	0
16	INWARD MELTING AND FREEZING OF ADDITIVE-ENHANCED PHASE CHANGE MATERIALS IN SMALL DIAMETER CYLINDERS. , 2016, , .		0
17	EFFECT OF NANOSTRUCTURES AND ELECTROSTATIC INTERACTIONS ON MENISCUS SHAPE AND DISJOINING PRESSURE OF THIN LIQUID FILMS. , 2016, , .		0
18	Dendrite Growth during Freezing of Millimeter-Scale Eicosane Droplets. <i>Journal of Heat Transfer</i> , 2015, 137, .	2.1	2

#	ARTICLE	IF	CITATIONS
19	Model of Meniscus Shape and Disjoining Pressure of Thin Liquid Films on Nanostructured Surfaces with Electrostatic Interactions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11777-11785.	3.1	18
20	Colloidal Drop Deposition on Porous Substrates: Competition among Particle Motion, Evaporation, and Infiltration. <i>Langmuir</i> , 2015, 31, 7953-7961.	3.5	70
21	Pore-Scale Transport Resolved Model Incorporating Cathode Microstructure and Peroxide Growth in Lithium-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1135-A1145.	2.9	27
22	Effect of Nanostructures on the Meniscus Shape and Disjoining Pressure of Ultrathin Liquid Film. <i>Nano Letters</i> , 2014, 14, 7131-7137.	9.1	37
23	Wetting kinetics of water nano-droplet containing non-surfactant nanoparticles: A molecular dynamics study. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	38
24	A molecular dynamics study of effective thermal conductivity in nanocomposites. <i>International Journal of Heat and Mass Transfer</i> , 2013, 61, 577-582.	4.8	57
25	Molecular dynamics simulations of disjoining pressure effect in ultra-thin water film on a metal surface. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	32
26	The effect of oxygen vacancies on water wettability of a ZnO surface. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16557.	2.8	88
27	Effect of nanopatterns on Kapitza resistance at a water-gold interface during boiling: A molecular dynamics study. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	87