Hongxia Li

List of Publications by Year
in descending order

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30	1,896	623188 14	794141 19
papers	citations	h-index	g-index

31	31	31	2243
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Steam generation under one sun enabled by a floating structure with thermalÂconcentration. Nature Energy, 2016, 1, .	19.8	870
2	Enhancement of Interfacial Solar Vapor Generation by Environmental Energy. Joule, 2018, 2, 1331-1338.	11.7	507
3	Designing aÂnext generation solar crystallizer for real seawater brine treatment with zero liquid discharge. Nature Communications, 2021, 12, 998.	5.8	136
4	Unidirectional Fast Growth and Forced Jumping of Stretched Droplets on Nanostructured Microporous Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 21776-21786.	4.0	64
5	Novel Receiver-Enhanced Solar Vapor Generation: Review and Perspectives. Energies, 2018, 11, 253.	1.6	59
6	Insights into the Impact of Surface Hydrophobicity on Droplet Coalescence and Jumping Dynamics. Langmuir, 2017, 33, 8574-8581.	1.6	36
7	Direct Prediction of Calcite Surface Wettability with First-Principles Quantum Simulation. Journal of Physical Chemistry Letters, 2017, 8, 5309-5316.	2.1	30
8	Condensation of Satellite Droplets on Lubricant-Cloaked Droplets. ACS Applied Materials & Interfaces, 2020, 12, 22246-22255.	4.0	24
9	Imaging and characterizing fluid invasion in micro-3D printed porous devices with variable surface wettability. Soft Matter, 2019, 15, 6978-6987.	1.2	23
10	Directional Passive Transport of Microdroplets in Oil-Infused Diverging Channels for Effective Condensate Removal. ACS Applied Materials & Interfaces, 2018, 10, 20910-20919.	4.0	22
11	Refractory Ultrathin Nanocomposite Solar Absorber with Superior Spectral Selectivity and Thermal Stability. Advanced Optical Materials, 2020, 8, 2000679.	3.6	20
12	Direct solar vapor generation with <scp>microâ€3D</scp> printed hydrogel device. EcoMat, 2022, 4, .	6.8	19
13	Impact of PEGDA photopolymerization in micro-stereolithography on 3D printed hydrogel structure and swelling. Soft Matter, 2021, 17, 7188-7195.	1.2	17
14	A novel approach to the analysis of squeezed-film air damping in microelectromechanical systems. Journal of Micromechanics and Microengineering, 2017, 27, 015012.	1.5	15
15	Numericalâ€“Theoretical Analysis of Heat Transfer, Pressure Drop, and Fouling in Internal Helically Ribbed Tubes of Different Geometries. Heat Transfer Engineering, 2016, 37, 279-289.	1.2	13
16	Empowering microfluidics by micro-3D printing and solution-based mineral coating. Soft Matter, 2020, 16, 6841-6849.	1.2	9
17	Enhanced Liquid Propagation and Wicking Along Nanostructured Porous Surfaces. Advanced Engineering Materials, 2021, 23, 2100118.	1.6	7
18	Biomimetic on-chip filtration enabled by direct micro-3D printing on membrane. Scientific Reports, 2022, 12, 8178.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Pore-Scale Lattice Boltzmann Simulation of Oil-Water Flow in Carbonate Rock with Variable Wettability. , 2015, , .		3
20	Characteristics of Jumping Droplet-Enhanced Condensation on Nanostructured Micromesh Surface. , 2016, , .		3
21	Imaging micro-scale multiphase flow in 3D-printed porous micromodels. , 2018, , .		3
22	Effect of Surface Wettability and Gas/Liquid Velocity Ratio on Microscale Two-Phase Flow Patterns. , 2016, , .		2
23	Pore-Scale Study on Interfacial Force-Induced Residue Mobilization under Immiscible Ternary Fluids Flow. International Journal of Multiphase Flow, 2021, 147, 103913.	1.6	2
24	Lattice Boltzmann Simulation of Rarefied Gas Flow Along Moving Rigid Objects in Micro-Cavities. , 2015, , .		1
25	Analysis of squeeze film air damping in MEMS with lattice Boltzmann method. , 2016, , .		1
26	Pore-Scale Experimental and Numerical Study on Permeability Characterization of Abu Dhabi Offshore Carbonate Micromodel. , 2016, , .		1
27	Prediction of thin liquid film evaporation characteristics with a thermal lattice boltzmann method. , 2016, , .		1
28	Model optimization of dry-out heat flux from micropillar wick structures. , 2016, , .		1
29	Numerical Analysis of Composite Fouling in Corrugated Plate Heat Exchanger. , 2013, , .		0
30	Prediction of Refrigerant Flow Boiling Hysteresis With an Augmented Separated-Flow Model. , 2016, , .		0