

# Hongxia Li

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,896  
citations

623734  
14  
h-index

794594  
19  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Steam generation under one sun enabled by a floating structure with thermal concentration. Nature Energy, 2016, 1, .	39.5	870
2	Enhancement of Interfacial Solar Vapor Generation by Environmental Energy. Joule, 2018, 2, 1331-1338.	24.0	507
3	Designing a next generation solar crystallizer for real seawater brine treatment with zero liquid discharge. Nature Communications, 2021, 12, 998.	12.8	136
4	Unidirectional Fast Growth and Forced Jumping of Stretched Droplets on Nanostructured Microporous Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 21776-21786.	8.0	64
5	Novel Receiver-Enhanced Solar Vapor Generation: Review and Perspectives. Energies, 2018, 11, 253.	3.1	59
6	Insights into the Impact of Surface Hydrophobicity on Droplet Coalescence and Jumping Dynamics. Langmuir, 2017, 33, 8574-8581.	3.5	36
7	Direct Prediction of Calcite Surface Wettability with First-Principles Quantum Simulation. Journal of Physical Chemistry Letters, 2017, 8, 5309-5316.	4.6	30
8	Condensation of Satellite Droplets on Lubricant-Cloaked Droplets. ACS Applied Materials & Interfaces, 2020, 12, 22246-22255.	8.0	24
9	Imaging and characterizing fluid invasion in micro-3D printed porous devices with variable surface wettability. Soft Matter, 2019, 15, 6978-6987.	2.7	23
10	Directional Passive Transport of Microdroplets in Oil-Infused Diverging Channels for Effective Condensate Removal. ACS Applied Materials & Interfaces, 2018, 10, 20910-20919.	8.0	22
11	Refractory Ultrathin Nanocomposite Solar Absorber with Superior Spectral Selectivity and Thermal Stability. Advanced Optical Materials, 2020, 8, 2000679.	7.3	20
12	Direct solar vapor generation with micro-3D printed hydrogel device. EcoMat, 2022, 4, .	11.9	19
13	Impact of PEGDA photopolymerization in micro-stereolithography on 3D printed hydrogel structure and swelling. Soft Matter, 2021, 17, 7188-7195.	2.7	17
14	A novel approach to the analysis of squeezed-film air damping in microelectromechanical systems. Journal of Micromechanics and Microengineering, 2017, 27, 015012.	2.6	15
15	Numerical Theoretical Analysis of Heat Transfer, Pressure Drop, and Fouling in Internal Helically Ribbed Tubes of Different Geometries. Heat Transfer Engineering, 2016, 37, 279-289.	1.9	13
16	Empowering microfluidics by micro-3D printing and solution-based mineral coating. Soft Matter, 2020, 16, 6841-6849.	2.7	9
17	Enhanced Liquid Propagation and Wicking Along Nanostructured Porous Surfaces. Advanced Engineering Materials, 2021, 23, 2100118.	3.5	7
18	Biomimetic on-chip filtration enabled by direct micro-3D printing on membrane. Scientific Reports, 2022, 12, 8178.	3.3	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.	3.4	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