Hongxia Li

List of Publications by Citations

26 papers	1,228 citations	11 h-index	31 g-index
31 ext. papers	1,555 ext. citations	10 avg, IF	4.65 L-index

#	Paper	IF	Citations
26	Steam generation under one sun enabled by a floating structure with thermal concentration. *Nature Energy*, **2016**, 1,	62.3	650
25	Enhancement of Interfacial Solar Vapor Generation by Environmental Energy. *Joule*, **2018**, 2, 1331-1338	27.8	301
24	Unidirectional Fast Growth and Forced Jumping of Stretched Droplets on Nanostructured Microporous Surfaces. *ACS Applied Materials & Interfaces*, **2016**, 8, 21776-86	9.5	45
23	Novel Receiver-Enhanced Solar Vapor Generation: Review and Perspectives. *Energies*, **2018**, 11, 253	3.1	43
22	Designing a next generation solar crystallizer for real seawater brine treatment with zero liquid discharge. *Nature Communications*, **2021**, 12, 998	17.4	42
21	Insights into the Impact of Surface Hydrophobicity on Droplet Coalescence and Jumping Dynamics. *Langmuir*, **2017**, 33, 8574-8581	4	28
20	Direct Prediction of Calcite Surface Wettability with First-Principles Quantum Simulation. *Journal of Physical Chemistry Letters*, **2017**, 8, 5309-5316	6.4	24
19	Directional Passive Transport of Microdroplets in Oil-Infused Diverging Channels for Effective Condensate Removal. *ACS Applied Materials & Interfaces*, **2018**, 10, 20910-20919	9.5	17
18	Imaging and characterizing fluid invasion in micro-3D printed porous devices with variable surface wettability. *Soft Matter*, **2019**, 15, 6978-6987	3.6	16
17	Condensation of Satellite Droplets on Lubricant-Cloaked Droplets. *ACS Applied Materials & Interfaces*, **2020**, 12, 22246-22255	9.5	14
16	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	1.7	11
15	A novel approach to the analysis of squeezed-film air damping in microelectromechanical systems. *Journal of Micromechanics and Microengineering*, **2017**, 27, 015012	2	9
14	Refractory Ultrathin Nanocomposite Solar Absorber with Superior Spectral Selectivity and Thermal Stability. *Advanced Optical Materials*, **2020**, 8, 2000679	8.1	6
13	Empowering microfluidics by micro-3D printing and solution-based mineral coating. *Soft Matter*, **2020**, 16, 6841-6849	3.6	4
12	Impact of PEGDA photopolymerization in micro-stereolithography on 3D printed hydrogel structure and swelling. *Soft Matter*, **2021**, 17, 7188-7195	3.6	4
11	Characteristics of Jumping Droplet-Enhanced Condensation on Nanostructured Micromesh Surface **2016**,		2
10	Pore-Scale Lattice Boltzmann Simulation of Oil-Water Flow in Carbonate Rock with Variable Wettability **2015**,		2

List of Publications

9	Imaging micro-scale multiphase flow in 3D-printed porous micromodels **2018**,		2
8	Effect of Surface Wettability and Gas/Liquid Velocity Ratio on Microscale Two-Phase Flow Patterns **2016**,		2
7	Pore-Scale Experimental and Numerical Study on Permeability Characterization of Abu Dhabi Offshore Carbonate Micromodel **2016**,		1
6	Prediction of thin liquid film evaporation characteristics with a thermal lattice boltzmann method **2016**,		1
5	Lattice Boltzmann Simulation of Rarefied Gas Flow Along Moving Rigid Objects in Micro-Cavities **2015**,		1
4	Pore-Scale Study on Interfacial Force-Induced Residue Mobilization under Immiscible Ternary Fluids Flow. *International Journal of Multiphase Flow*, **2021**, 147, 103913	3.6	1
3	Enhanced Liquid Propagation and Wicking Along Nanostructured Porous Surfaces. *Advanced Engineering Materials*, **2021**, 23, 2100118	3.5	1
2	Direct solar vapor generation with micro-3D printed hydrogel device. *EcoMat*, **2022**, 4,	9.4	1
1	Biomimetic on-chip filtration enabled by direct micro-3D printing on membrane.. *Scientific Reports*, **2022**, 12, 8178	4.9	