Pingan Zhu

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Passive and active droplet generation with microfluidics: a review. Lab on A Chip, 2017, 17, 34-75.	6.0	825
2	Three-dimensional capillary ratchet-induced liquid directional steering. Science, 2021, 373, 1344-1348.	12.6	223
3	Large-scale water collection of bioinspired cavity-microfibers. Nature Communications, 2017, 8, 1080.	12.8	144
4	Well-defined porous membranes for robust omniphobic surfaces via microfluidic emulsion templating. Nature Communications, 2017, 8, 15823.	12.8	143
5	Omniphobic ZIFâ€8@Hydrogel Membrane by Microfluidicâ€Emulsionâ€Templating Method for Wound Healing. Advanced Functional Materials, 2020, 30, 1909389.	14.9	133
6	Mechano-regulated surface for manipulating liquid droplets. Nature Communications, 2017, 8, 14831.	12.8	88
7	Engineering Micromotors with Droplet Microfluidics. ACS Nano, 2019, 13, 6319-6329.	14.6	68
8	Droplet generation in co-flow microfluidic channels with vibration. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	62
9	Microfluidic generation of aqueous two-phase-system (ATPS) droplets by oil-droplet choppers. Lab on A Chip, 2017, 17, 3310-3317.	6.0	47
10	Tip-multi-breaking in Capillary Microfluidic Devices. Scientific Reports, 2015, 5, 11102.	3.3	45
11	Microfluidics-Enabled Soft Manufacture of Materials with Tailorable Wettability. Chemical Reviews, 2022, 122, 7010-7060.	47.7	44
12	Engineering Microstructure with Evaporationâ€Induced Selfâ€Assembly of Microdroplets. Small Methods, 2018, 2, 1800017.	8.6	43
13	Passive Mixing inside Microdroplets. Micromachines, 2018, 9, 160.	2.9	42
14	Asymmetric fibers for efficient fog harvesting. Chemical Engineering Journal, 2021, 415, 128944.	12.7	42
15	Robust liquid repellency by stepwise wetting resistance. Applied Physics Reviews, 2021, 8, .	11.3	34
16	Topographyâ€Directed Hotâ€Water Superâ€Repellent Surfaces. Advanced Science, 2019, 6, 1900798.	11.2	32
17	Pinch-off of microfluidic droplets with oscillatory velocity of inner phase flow. Scientific Reports, 2016, 6, 31436.	3.3	29
18	Microfluidic Encapsulation of Phase-Change Materials for High Thermal Performance. Langmuir, 2020, 36, 8165-8173.	3.5	29

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19	Droplet Breakup in Expansion-contraction Microchannels. Scientific Reports, 2016, 6, 21527.	3.3	28
20	Superwettability with antithetic states: fluid repellency in immiscible liquids. Materials Horizons, 2018, 5, 1156-1165.	12.2	25
21	Bioinspired Soft Microactuators. Advanced Materials, 2021, 33, e2008558.	21.0	22
22	Citrus-peel-like durable slippery surfaces. Chemical Engineering Journal, 2021, 420, 129599.	12.7	21
23	Superhydrophobicity preventing surface contamination asÂa novel strategy against COVID-19. Journal of Colloid and Interface Science, 2021, 600, 613-619.	9.4	21
24	Engineering particle morphology with microfluidic droplets. Journal of Micromechanics and Microengineering, 2016, 26, 075011.	2.6	18
25	Microfluidic generation of ATPS droplets by transient double emulsion technique. Lab on A Chip, 2021, 21, 2684-2690.	6.0	17
26	A method for predicting thermal waves in dual-phase-lag heat conduction. International Journal of Heat and Mass Transfer, 2017, 115, 250-257.	4.8	15
27	Spreading-induced dewetting for monolayer colloidosomes with responsive permeability. Journal of Materials Chemistry B, 2017, 5, 6034-6041.	5.8	15
28	Nonspecular Reflection of Droplets. Small, 2021, 17, 2006695.	10.0	14
29	A Dewetting Model for Double-Emulsion Droplets. Micromachines, 2016, 7, 196.	2.9	12
30	Self-Assembly of TiO₂ Nanofiber-Based Microcapsules by Spontaneously Evolved Multiple Emulsions. Langmuir, 2018, 34, 8785-8791.	3.5	10
31	Droplet pinch-off with pressure fluctuations. Chemical Engineering Science, 2019, 196, 333-343.	3.8	9
32	Magnetic Field-Assisted Fission of a Ferrofluid Droplet for Large-Scale Droplet Generation. Langmuir, 2022, 38, 5838-5846.	3.5	8
33	Beyond the classical theory of heat conduction: a perspective view of future from entropy. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160362.	2.1	5
34	Hourglass-Shaped Microfibers. ACS Applied Materials & Interfaces, 2020, 12, 29747-29756.	8.0	5
35	Engineering embolic microparticles from a periodically-pulsating charged liquid meniscus. Chemical Engineering Science, 2018, 183, 13-19.	3.8	4
36	Microfluidic Rapid Fabrication of Tunable Polyvinyl Alcohol Microspheres for Adsorption Applications. Materials, 2019, 12, 3712.	2.9	4

#	Article	IF	Citations
37	A paradigm shift in liquid cooling by multitextured surface design. Innovation(China), 2022, 3, 100222.	9.1	3
38	Progress in all-aqueous droplets generation with microfluidics: Mechanisms of formation and stability improvements. Biophysics Reviews, 2022, 3, .	2.7	2
39	Droplet Manipulations: Nonspecular Reflection of Droplets (Small 3/2021). Small, 2021, 17, 2170009.	10.0	1
40	Active Droplet Generation with Microfluidics by Mechanical Vibration. , 2022, , 41-67.		1
41	Microfluidics-Synthesized Colloidosomes. , 2022, , 89-104.		1
42	Dynamics of Passive Droplet Generation in Capillary Microfluidic Devices. , 2022, , 25-39.		0
43	Summary and Perspective. , 2022, , 301-305.		0
44	Microcavity Surfaces for Robust Hot-Water Super-Repellency. , 2022, , 241-262.		0
45	Well-Ordered Microstructures from Droplet Self-Assembly. , 2022, , 195-216.		0
46	Oil-Assisted Generation of Water-in-Water Droplets with Microfluidics. , 2022, , 69-87.		0