Shile Feng

List of Publications by Year
in descending order

40 papers	1,716 citations	304368 22 h-index	288905 40 g-index
41 all docs	41 docs citations	41 times ranked	1444 citing authors

#	Article	IF	Citations
1	Three-dimensional capillary ratchet-induced liquid directional steering. Science, 2021, 373, 1344-1348.	6.0	223
2	Tip-induced flipping of droplets on Janus pillars: From local reconfiguration to global transport. Science Advances, 2020, 6, eabb4540.	4.7	164
3	Magnetically Induced Low Adhesive Direction of Nano/Micropillar Arrays for Microdroplet Transport. Advanced Functional Materials, 2018, 28, 1800163.	7.8	128
4	Droplets Manipulated on Photothermal Organogel Surfaces. Advanced Functional Materials, 2018, 28, 1803072.	7.8	121
5	Biological and Engineered Topological Droplet Rectifiers. Advanced Materials, 2019, 31, e1806501.	11.1	113
6	Robust Slippery Liquid-Infused Porous Network Surfaces for Enhanced Anti-icing/Deicing Performance. ACS Applied Materials & Interfaces, 2020, 12, 25471-25477.	4.0	98
7	Controlled Smart Anisotropic Unidirectional Spreading of Droplet on a Fibrous Surface. Advanced Materials, 2015, 27, 5057-5062.	11.1	90
8	Controlled droplet transport to target on a high adhesion surface with multi-gradients. Scientific Reports, 2017, 7, 45687.	1.6	61
9	Integrative Bioinspired Surface with Wettable Patterns and Gradient for Enhancement of Fog Collection. ACS Applied Materials & Interfaces, 2019, 11, 10951-10958.	4.0	56
10	Controlled Directional Waterâ€Droplet Spreading on a Highâ€Adhesion Surface. Angewandte Chemie - International Edition, 2014, 53, 6163-6167.	7.2	55
11	Designing biomimetic liquid diodes. Soft Matter, 2019, 15, 1902-1915.	1.2	55
12	Temperature-triggered directional motion of tiny water droplets on bioinspired fibers in humidity. Chemical Communications, 2013, 49, 5253.	2.2	53
13	Inhibiting Random Droplet Motion on Hot Surfaces by Engineering Symmetryâ€Breaking Janusâ€Mushroom Structure. Advanced Materials, 2020, 32, e1907999.	11.1	38
14	Continuous Directional Water Transport on Integrating Tapered Surfaces. Advanced Materials Interfaces, 2020, 7, 2000081.	1.9	32
15	Highly Tough, Stretchable, and Solventâ€Resistant Cellulose Nanocrystal Photonic Films for Mechanochromism and Actuator Properties. Small, 2022, 18, e2107105.	5.2	32
16	A Strategy of Antifogging: Air-Trapped Hollow Microsphere Nanocomposites. Chemistry of Materials, 2017, 29, 2899-2905.	3.2	31
17	Photo-controlled water gathering on bio-inspired fibers. Soft Matter, 2013, 9, 9294.	1.2	30
18	Directional Droplet Transport Mediated by Circular Groove Arrays. Part I: Experimental Findings. Langmuir, 2020, 36, 9608-9615.	1.6	30

#	Article	IF	Citations
19	Dynamic Magnetic Responsive Wall Array with Droplet Shedding-off Properties. Scientific Reports, 2015, 5, 11209.	1.6	28
20	Temperature-controlled directional spreading of water on a surface with high hysteresis. NPG Asia Materials, 2013, 5, e77-e77.	3.8	27
21	Water-assisted fabrication of porous bead-on-string fibers. Journal of Materials Chemistry A, 2013, 1, 8363.	5.2	25
22	Radial Wettable Gradient of Hot Surface to Control Droplets Movement in Directions. Scientific Reports, 2015, 5, 10067.	1.6	22
23	Droplet Transport on a Nanoâ€•and Microstructured Surface with a Wettability Gradient in Lowâ€Temperature or Highâ€Humidity Environments. Advanced Materials Interfaces, 2015, 2, 1500040.	1.9	22
24	Controlling of Water Collection Ability by an Elasticityâ€Regulated Bioinspired Fiber. Macromolecular Rapid Communications, 2015, 36, 459-464.	2.0	20
25	Directional bouncing of droplets on oblique two-tier conical structures. RSC Advances, 2017, 7, 35771-35775.	1.7	20
26	Controlled droplet transport on a gradient adhesion surface. Chemical Communications, 2015, 51, 6010-6013.	2.2	19
27	Directional Droplet Transport Mediated by Circular Groove Arrays. Part II: Theory of Effect. Langmuir, 2021, 37, 1948-1953.	1.6	18
28	Counterintuitive Ballistic and Directional Liquid Transport on a Flexible Droplet Rectifier. Research, 2020, 2020, 6472313.	2.8	16
29	Controlled transportation of droplets and higher fog collection efficiency on a multi-scale and multi-gradient copper wire. RSC Advances, 2017, 7, 29606-29610.	1.7	13
30	An Integrative Mesh with Dual Wettable Onâ€“Off Switch ofÂWater/Oil. Advanced Materials Interfaces, 2018, 5, 1701193.	1.9	13
31	Synchronous oil/water separation and wastewater treatment on a copper-oxide-coated mesh. RSC Advances, 2021, 11, 17740-17745.	1.7	13
32	Design of flexible multiâ€level topography for enhancing mechanical property. Nano Select, 2021, 2, 541-548.	1.9	12
33	One-step fabricated wettable gradient surface for controlled directional underwater oil-droplet transport. RSC Advances, 2017, 7, 7885-7889.	1.7	8
34	Multibioinspired JANUS Membranes with Spatial Surface Refreshment for Enhanced Fog Collection. Advanced Materials Interfaces, 2021, 8, 2101212.	1.9	7
35	Droplet Selfâ€Propelling Control on Bioinspired Fiber in Low Temperature and High Humidity Environment. Advanced Materials Interfaces, 2020, 7, 1901183.	1.9	5
36	Selective oxidation of carbon to enhance both tensile strength and interfacial adhesion of carbon fiber. Journal of Adhesion, 2020, 96, 873-882.	1.8	4

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37	Electromigration-triggered programmable droplet spreading. Chemical Engineering Journal, 2021, 423, 130281.	6.6	4
38	Sensitive chemoselectivity of cellulose nanocrystal films. Cellulose, 2022, 29, 4097-4107.	2.4	2
39	Wettability: An Integrative Mesh with Dual Wettable On-Off Switch ofÂWater/Oil (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.9	1
40	One-Step Fabrication of Hot-Water-Repellent Surfaces. Biomimetics, 2022, 7, 72.	1.5	0