

# Shile Feng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6654590/publications.pdf>

Version: 2024-02-01

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	Highly Tough, Stretchable, and Solvent-Resistant Cellulose Nanocrystal Photonic Films for Mechanochromism and Actuator Properties. <i>Small</i> , 2022, 18, e2107105.	5.2	32
2	Sensitive chemoselectivity of cellulose nanocrystal films. <i>Cellulose</i> , 2022, 29, 4097-4107.	2.4	2
3	One-Step Fabrication of Hot-Water-Repellent Surfaces. <i>Biomimetics</i> , 2022, 7, 72.	1.5	0
4	Design of flexible multi-level topography for enhancing mechanical property. <i>Nano Select</i> , 2021, 2, 541-548.	1.9	12
5	Synchronous oil/water separation and wastewater treatment on a copper-oxide-coated mesh. <i>RSC Advances</i> , 2021, 11, 17740-17745.	1.7	13
6	Multibioinspired JANUS Membranes with Spatial Surface Refreshment for Enhanced Fog Collection. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101212.	1.9	7
7	Three-dimensional capillary ratchet-induced liquid directional steering. <i>Science</i> , 2021, 373, 1344-1348.	6.0	223
8	Electromigration-triggered programmable droplet spreading. <i>Chemical Engineering Journal</i> , 2021, 423, 130281.	6.6	4
9	Directional Droplet Transport Mediated by Circular Groove Arrays. Part II: Theory of Effect. <i>Langmuir</i> , 2021, 37, 1948-1953.	1.6	18
10	Selective oxidation of carbon to enhance both tensile strength and interfacial adhesion of carbon fiber. <i>Journal of Adhesion</i> , 2020, 96, 873-882.	1.8	4
11	Droplet Self-Propelling Control on Bioinspired Fiber in Low Temperature and High Humidity Environment. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901183.	1.9	5
12	Directional Droplet Transport Mediated by Circular Groove Arrays. Part I: Experimental Findings. <i>Langmuir</i> , 2020, 36, 9608-9615.	1.6	30
13	Robust Slippery Liquid-Infused Porous Network Surfaces for Enhanced Anti-icing/Deicing Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25471-25477.	4.0	98
14	Continuous Directional Water Transport on Integrating Tapered Surfaces. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000081.	1.9	32
15	Tip-induced flipping of droplets on Janus pillars: From local reconfiguration to global transport. <i>Science Advances</i> , 2020, 6, eabb4540.	4.7	164
16	Inhibiting Random Droplet Motion on Hot Surfaces by Engineering Symmetry-Breaking Janus-Mushroom Structure. <i>Advanced Materials</i> , 2020, 32, e1907999.	11.1	38
17	Counterintuitive Ballistic and Directional Liquid Transport on a Flexible Droplet Rectifier. <i>Research</i> , 2020, 2020, 6472313.	2.8	16
18	Biological and Engineered Topological Droplet Rectifiers. <i>Advanced Materials</i> , 2019, 31, e1806501.	11.1	113

#	ARTICLE	IF	CITATIONS
19	Designing biomimetic liquid diodes. <i>Soft Matter</i> , 2019, 15, 1902-1915.	1.2	55
20	Integrative Bioinspired Surface with Wettable Patterns and Gradient for Enhancement of Fog Collection. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10951-10958.	4.0	56
21	Magnetically Induced Low Adhesive Direction of Nano/Micropillar Arrays for Microdroplet Transport. <i>Advanced Functional Materials</i> , 2018, 28, 1800163.	7.8	128
22	An Integrative Mesh with Dual Wettable On-Off Switch of Water/Oil. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701193.	1.9	13
23	Wettability: An Integrative Mesh with Dual Wettable On-Off Switch of Water/Oil (Adv. Mater.) Tj ETQq1 1 0.784314,rgBT /Overlock 10	1.9	13
24	Droplets Manipulated on Photothermal Organogel Surfaces. <i>Advanced Functional Materials</i> , 2018, 28, 1803072.	7.8	121
25	One-step fabricated wettable gradient surface for controlled directional underwater oil-droplet transport. <i>RSC Advances</i> , 2017, 7, 7885-7889.	1.7	8
26	Controlled transportation of droplets and higher fog collection efficiency on a multi-scale and multi-gradient copper wire. <i>RSC Advances</i> , 2017, 7, 29606-29610.	1.7	13
27	Controlled droplet transport to target on a high adhesion surface with multi-gradients. <i>Scientific Reports</i> , 2017, 7, 45687.	1.6	61
28	A Strategy of Antifogging: Air-Trapped Hollow Microsphere Nanocomposites. <i>Chemistry of Materials</i> , 2017, 29, 2899-2905.	3.2	31
29	Directional bouncing of droplets on oblique two-tier conical structures. <i>RSC Advances</i> , 2017, 7, 35771-35775.	1.7	20
30	Controlled Smart Anisotropic Unidirectional Spreading of Droplet on a Fibrous Surface. <i>Advanced Materials</i> , 2015, 27, 5057-5062.	11.1	90
31	Radial Wettable Gradient of Hot Surface to Control Droplets Movement in Directions. <i>Scientific Reports</i> , 2015, 5, 10067.	1.6	22
32	Controlling of Water Collection Ability by an Elasticity-Regulated Bioinspired Fiber. <i>Macromolecular Rapid Communications</i> , 2015, 36, 459-464.	2.0	20
33	Controlled droplet transport on a gradient adhesion surface. <i>Chemical Communications</i> , 2015, 51, 6010-6013.	2.2	19
34	Dynamic Magnetic Responsive Wall Array with Droplet Shedding-off Properties. <i>Scientific Reports</i> , 2015, 5, 11209.	1.6	28
35	Droplet Transport on a Nano- and Microstructured Surface with a Wettability Gradient in Low-Temperature or High-Humidity Environments. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500040.	1.9	22
36	Controlled Directional Water-Droplet Spreading on a High-Adhesion Surface. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6163-6167.	7.2	55

#	ARTICLE	IF	CITATIONS
37	Photo-controlled water gathering on bio-inspired fibers. <i>Soft Matter</i> , 2013, 9, 9294.	1.2	30
38	Water-assisted fabrication of porous bead-on-string fibers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8363.	5.2	25
39	Temperature-triggered directional motion of tiny water droplets on bioinspired fibers in humidity. <i>Chemical Communications</i> , 2013, 49, 5253.	2.2	53
40	Temperature-controlled directional spreading of water on a surface with high hysteresis. <i>NPG Asia Materials</i> , 2013, 5, e77-e77.	3.8	27