Dongliang Tian

List of Publications by Year
in descending order

43 papers	2,733 citations	218677 26 h-index	265206 42 g-index
44 all docs	44 docs citations	44 times ranked	3030 citing authors

#	Article	IF	Citations
1	Photo-induced waterâ€“oil separation based on switchable superhydrophobicityâ€“superhydrophilicity and underwater superoleophobicity of the aligned ZnO nanorod array-coated mesh films. Journal of Materials Chemistry, 2012, 22, 19652.	6.7	347
2	Patterning of controllable surface wettability for printing techniques. Chemical Society Reviews, 2013, 42, 5184.	38.1	299
3	Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. ACS Nano, 2017, 11, 2477-2485.	14.6	186
4	Micro/nanoscale hierarchical structured ZnO mesh film for separation of water and oil. Physical Chemistry Chemical Physics, 2011, 13, 14606.	2.8	185
5	Fast Responsive and Controllable Liquid Transport on a Magnetic Fluid/Nanoarray Composite Interface. ACS Nano, 2016, 10, 6220-6226.	14.6	144
6	Electric Field Induced Switchable Wettability to Water on the Polyaniline Membrane and Oil/Water Separation. Advanced Materials Interfaces, 2016, 3, 1600461.	3.7	137
7	Patterned Wettability Transition by Photoelectric Cooperative and Anisotropic Wetting for Liquid Reprography. Advanced Materials, 2009, 21, 3744-3749.	21.0	118
8	Underwater Self-Cleaning Scaly Fabric Membrane for Oily Water Separation. ACS Applied Materials & Interfaces, 2015, 7, 4336-4343.	8.0	113
9	Highly Flexible Monolayered Porous Membrane with Superhydrophilicityâ€“Hydrophilicity for Unidirectional Liquid Penetration. ACS Nano, 2020, 14, 7287-7296.	14.6	95
10	Multifunctional Magnetocontrollable Superwettableâ€Microcilia Surface for Directional Droplet Manipulation. Advanced Science, 2019, 6, 1900834.	11.2	92
11	Externalâ€Fieldâ€Induced Gradient Wetting for Controllable Liquid Transport: From Movement on the Surface to Penetration into the Surface. Advanced Materials, 2017, 29, 1703802.	21.0	90
12	An Integrated Janus Mesh: Underwater Bubble Antibuoyancy Unidirectional Penetration. ACS Nano, 2018, 12, 5489-5494.	14.6	88
13	Closed Pore Structured NiCo₂O₄-Coated Nickel Foams for Stable and Effective Oil/Water Separation. ACS Applied Materials & Interfaces, 2017, 9, 29177-29184.	8.0	68
14	Phototunable Underwater Oil Adhesion of Micro/Nanoscale Hierarchicalâ€Structured ZnO Mesh Films with Switchable Contact Mode. Advanced Functional Materials, 2014, 24, 536-542.	14.9	67
15	Recent progress of electrowetting for droplet manipulation: from wetting to superwetting systems. Materials Chemistry Frontiers, 2020, 4, 140-154.	5.9	67
16	Electric Field and Gradient Microstructure for Cooperative Driving of Directional Motion of Underwater Oil Droplets. Advanced Functional Materials, 2016, 26, 7986-7992.	14.9	61
17	Photocontrollable Water Permeation on the Micro/Nanoscale Hierarchical Structured ZnO Mesh Films. Langmuir, 2011, 27, 4265-4270.	3.5	53
18	Switchable Wettability and Adhesion of Micro/Nanostructured Elastomer Surface via Electric Field for Dynamic Liquid Droplet Manipulation. Advanced Science, 2020, 7, 2000772.	11.2	53

#	Article	IF	Citations
19	Ciliaâ€Inspired Flexible Arrays for Intelligent Transport of Viscoelastic Microspheres. Advanced Functional Materials, 2018, 28, 1706666.	14.9	51
20	Ordered Honeycomb Structure Surface Generated by Breath Figures for Liquid Reprography. Advanced Functional Materials, 2014, 24, 7241-7248.	14.9	43
21	Uncoupled surface spin induced exchange bias in Î±-MnO2 nanowires. Scientific Reports, 2014, 4, 6641.	3.3	39
22	Molecular-Structure-Induced Under-Liquid Dual Superlyophobic Surfaces. ACS Nano, 2020, 14, 14869-14877.	14.6	37
23	Photoelectric Cooperative Induced Wetting on Alignedâ€Nanopore Arrays for Liquid Reprography. Advanced Functional Materials, 2011, 21, 4519-4526.	14.9	35
24	Switchable Direction of Liquid Transport <i>via</i> an Anisotropic Microarray Surface and Thermal Stimuli. ACS Nano, 2020, 14, 1436-1444.	14.6	34
25	Bioinspired Continuous and Spontaneous Antigravity Oil Collection and Transportation. Advanced Functional Materials, 2018, 28, 1704220.	14.9	30
26	Photoelectric cooperative patterning of liquid permeation on the micro/nano hierarchically structured mesh film with low adhesion. Nanoscale, 2014, 6, 12822-12827.	5.6	27
27	Electrowettingâ€Induced Stiction Switch of a Microstructured Wire Surface for Unidirectional Droplet and Bubble Motion. Advanced Functional Materials, 2018, 28, 1800775.	14.9	23
28	Magnetic field actuated manipulation and transfer of oil droplets on a stable underwater superoleophobic surface. Physical Chemistry Chemical Physics, 2016, 18, 16202-16207.	2.8	20
29	An Innovative Design by Singleâ€Layer Superaerophobic Mesh: Continuous Underwater Bubble Antibuoyancy Collection and Transportation. Advanced Functional Materials, 2020, 30, 1907027.	14.9	20
30	Optoelectrowettability conversion on superhydrophobic CdS QDs sensitized TiO2 nanotubes. Journal of Colloid and Interface Science, 2012, 366, 1-7.	9.4	17
31	Stretch-Enhanced Anisotropic Wetting on Transparent Elastomer Film for Controlled Liquid Transport. ACS Nano, 2021, 15, 19981-19989.	14.6	15
32	A bioinspired magnetic responsive cilia array surface for microspheres underwater directional transport. Science China Chemistry, 2020, 63, 347-353.	8.2	14
33	Atomic Scale Evolution of Graphitic Shells Growth via Pyrolysis of Cobalt Phthalocyanine. Advanced Materials Interfaces, 2020, 7, 2001112.	3.7	13
34	The highly efficient collection of underwater oil droplets on an anisotropic porous cone surface <i>via</i> an electric field. Journal of Materials Chemistry A, 2020, 8, 8605-8611.	10.3	13
35	Patterned liquid permeation through the TiO2 nanotube array coated Ti mesh by photoelectric cooperation for liquid printing. Journal of Materials Chemistry A, 2014, 2, 2498.	10.3	8
36	Directional Transport: Bioinspired Continuous and Spontaneous Antigravity Oil Collection and Transportation (Adv. Funct. Mater. 5/2018). Advanced Functional Materials, 2018, 28, 1870032.	14.9	8

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37	Switchable smart porous surface for controllable liquid transportation. Materials Horizons, 2022, 9, 780-790.	12.2	7
38	A fast adaptive gating system based on the reconfigurable morphology of liquid metal <i>via</i> an electric field on porous surfaces. Journal of Materials Chemistry A, 2020, 8, 24184-24191.	10.3	6
39	Morphology-controlled self-assembled nanostructures of a porphyrin derivative and their photoelectrochemical properties. RSC Advances, 2014, 4, 4063-4068.	3.6	5
40	Directional Motion: Electric Field and Gradient Microstructure for Cooperative Driving of Directional Motion of Underwater Oil Droplets (Adv. Funct. Mater. 44/2016). Advanced Functional Materials, 2016, 26, 8148-8148.	14.9	3
41	Porous Films: Ordered Honeycomb Structure Surface Generated by Breath Figures for Liquid Reprography (Adv. Funct. Mater. 46/2014). Advanced Functional Materials, 2014, 24, 7226-7226.	14.9	1
42	Droplet Manipulation: Multifunctional Magnetocontrollable Superwettableâ€Microcilia Surface for Directional Droplet Manipulation (Adv. Sci. 17/2019). Advanced Science, 2019, 6, 1970102.	11.2	1
43	BIOINSPIRED DESIGN OF SUPER-ANTIWETTING INTERFACES. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 355-390.	0.1	0