Dongliang Tian

List of Publications by Year in descending order

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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	Switchable smart porous surface for controllable liquid transportation. Materials Horizons, 2022, 9, 780-790.	12.2	7
2	Stretch-Enhanced Anisotropic Wetting on Transparent Elastomer Film for Controlled Liquid Transport. ACS Nano, 2021, 15, 19981-19989.	14.6	15
3	Recent progress of electrowetting for droplet manipulation: from wetting to superwetting systems. Materials Chemistry Frontiers, 2020, 4, 140-154.	5.9	67
4	Switchable Direction of Liquid Transport via an Anisotropic Microarray Surface and Thermal Stimuli. ACS Nano, 2020, 14, 1436-1444.	14.6	34
5	An Innovative Design by Singleâ€Layer Superaerophobic Mesh: Continuous Underwater Bubble Antibuoyancy Collection and Transportation. Advanced Functional Materials, 2020, 30, 1907027.	14.9	20
6	Molecular-Structure-Induced Under-Liquid Dual Superlyophobic Surfaces. ACS Nano, 2020, 14, 14869-14877.	14.6	37
7	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
8	Atomic Scale Evolution of Graphitic Shells Growth via Pyrolysis of Cobalt Phthalocyanine. Advanced Materials Interfaces, 2020, 7, 2001112.	3.7	13
9	A fast adaptive gating system based on the reconfigurable morphology of liquid metal via an electric field on porous surfaces. Journal of Materials Chemistry A, 2020, 8, 24184-24191.	10.3	6
10	Highly Flexible Monolayered Porous Membrane with Superhydrophilicityâ€“Hydrophilicity for Unidirectional Liquid Penetration. ACS Nano, 2020, 14, 7287-7296.	14.6	95
11	A bioinspired magnetic responsive cilia array surface for microspheres underwater directional transport. Science China Chemistry, 2020, 63, 347-353.	8.2	14
12	The highly efficient collection of underwater oil droplets on an anisotropic porous cone surface via an electric field. Journal of Materials Chemistry A, 2020, 8, 8605-8611.	10.3	13
13	Multifunctional Magnetocontrollable Superwettableâ€Microcilia Surface for Directional Droplet Manipulation. Advanced Science, 2019, 6, 1900834.	11.2	92
14	Droplet Manipulation: Multifunctional Magnetocontrollable Superwettableâ€Microcilia Surface for Directional Droplet Manipulation (Adv. Sci. 17/2019). Advanced Science, 2019, 6, 1970102.	11.2	1
15	Ciliaâ€Inspired Flexible Arrays for Intelligent Transport of Viscoelastic Microspheres. Advanced Functional Materials, 2018, 28, 1706666.	14.9	51
16	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
17	Bioinspired Continuous and Spontaneous Antigravity Oil Collection and Transportation. Advanced Functional Materials, 2018, 28, 1704220.	14.9	30
18	An Integrated Janus Mesh: Underwater Bubble Antibuoyancy Unidirectional Penetration. ACS Nano, 2018, 12, 5489-5494.	14.6	88

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19	Electrowettingâ€Induced Stiction Switch of a Microstructured Wire Surface for Unidirectional Droplet and Bubble Motion. Advanced Functional Materials, 2018, 28, 1800775.	14.9	23
20	Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. ACS Nano, 2017, 11, 2477-2485.	14.6	186
21	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
22	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
23	Fast Responsive and Controllable Liquid Transport on a Magnetic Fluid/Nanoarray Composite Interface. ACS Nano, 2016, 10, 6220-6226.	14.6	144
24	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
25	Electric Field Induced Switchable Wettability to Water on the Polyaniline Membrane and Oil/Water Separation. Advanced Materials Interfaces, 2016, 3, 1600461.	3.7	137
26	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
27	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
28	Underwater Self-Cleaning Scaly Fabric Membrane for Oily Water Separation. ACS Applied Materials & Interfaces, 2015, 7, 4336-4343.	8.0	113
29	Ordered Honeycomb Structure Surface Generated by Breath Figures for Liquid Reprography. Advanced Functional Materials, 2014, 24, 7241-7248.	14.9	43
30	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
31	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
32	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
33	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
34	Morphology-controlled self-assembled nanostructures of a porphyrin derivative and their photoelectrochemical properties. RSC Advances, 2014, 4, 4063-4068.	3.6	5
35	BIOINSPIRED DESIGN OF SUPER-ANTIWETTING INTERFACES. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 355-390.	0.1	0
36	Uncoupled surface spin induced exchange bias in Î±-MnO2 nanowires. Scientific Reports, 2014, 4, 6641.	3.3	39

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37	Patterning of controllable surface wettability for printing techniques. Chemical Society Reviews, 2013, 42, 5184.	38.1	299
38	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
39	Optoelectrowettability conversion on superhydrophobic CdS QDs sensitized TiO2 nanotubes. Journal of Colloid and Interface Science, 2012, 366, 1-7.	9.4	17
40	Micro/nanoscale hierarchical structured ZnO mesh film for separation of water and oil. Physical Chemistry Chemical Physics, 2011, 13, 14606.	2.8	185
41	Photocontrollable Water Permeation on the Micro/Nanoscale Hierarchical Structured ZnO Mesh Films. Langmuir, 2011, 27, 4265-4270.	3.5	53
42	Photoelectric Cooperative Induced Wetting on Alignedâ€Nanopore Arrays for Liquid Reprography. Advanced Functional Materials, 2011, 21, 4519-4526.	14.9	35
43	Patterned Wettability Transition by Photoelectric Cooperative and Anisotropic Wetting for Liquid Reprography. Advanced Materials, 2009, 21, 3744-3749.	21.0	118