

Lei Wang

List of Publications by Year in descending order

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41
papers

1,561
citations

516561

16
h-index

315616

38
g-index

41
all docs

41
docs citations

41
times ranked

1942
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Anti-icing Performance of a Flexible Superhydrophobic Surface. <i>Advanced Materials</i> , 2016, 28, 7729-7735.	11.1	453
2	Lotus effect in wetting and self-cleaning. <i>Biotribology</i> , 2016, 5, 31-43.	0.9	208
3	ZnO Nanorod Array Modified PVDF Membrane with Superhydrophobic Surface for Vacuum Membrane Distillation Application. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13452-13461.	4.0	109
4	PLUS-M: a Porous Liquid-metal enabled Ubiquitous Soft Material. <i>Materials Horizons</i> , 2018, 5, 222-229.	6.4	105
5	Soft, Highly Elastic, and Discharge-Current-Controllable Eutectic Gallium-Indium Liquid Metal Air Battery Operated at Room Temperature. <i>Advanced Energy Materials</i> , 2018, 8, 1703652.	10.2	91
6	Controlled Smart Anisotropic Unidirectional Spreading of Droplet on a Fibrous Surface. <i>Advanced Materials</i> , 2015, 27, 5057-5062.	11.1	90
7	Ice-phobic gummed tape with nano-cones on microspheres. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3312.	5.2	51
8	Magnetic field-guided directional rebound of a droplet on a superhydrophobic flexible needle surface. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18289-18293.	5.2	51
9	Self-Propelled and Long-Time Transport Motion of PVC Particles on a Water Surface. <i>Advanced Materials</i> , 2016, 28, 4065-4070.	11.1	37
10	Unidirectional Droplet Transport on the Biofabricated Butterfly Wing. <i>Langmuir</i> , 2018, 34, 12482-12487.	1.6	37
11	Microstructure-modified proton exchange membranes for high-performance direct methanol fuel cells. <i>Energy Conversion and Management</i> , 2017, 148, 753-758.	4.4	31
12	A novel flexible micro-ratchet/ZnO nano-rods surface with rapid recovery icephobic performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 52-57.	2.9	31
13	Synthesis and characterization of textured Ti ₂ AlC reinforced magnesium composite. <i>Journal of Alloys and Compounds</i> , 2018, 730, 191-195.	2.8	27
14	Robust anti-icing performance of silicon wafer with hollow micro-/nano-structured ZnO. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 46-51.	2.9	26
15	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
16	Superhydrophobic E-textile with an Ag-EGaIn Conductive Layer for Motion Detection and Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33650-33661.	4.0	20
17	Directional droplet-actuation and fluid-resistance reduction performance on the bio-inspired shark-fin-like superhydrophobic surface. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 97, 389-396.	2.7	17
18	Shape Control of Lotus Leaf Induced by Surface Submillimeter Texture. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000040.	1.9	16

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19	Counterintuitive Ballistic and Directional Liquid Transport on a Flexible Droplet Rectifier. <i>Research</i> , 2020, 2020, 6472313.	2.8	16
20	Enhanced adhesion between liquid metal ink and the wetted printer paper for direct writing electronic circuits. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 202-207.	2.7	15
21	Facile Assembly of a Large Area BNNSs Film for Oxidation/Corrosion-Resistant Coatings. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800750.	1.9	14
22	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
23	Design of flexible multi-level topography for enhancing mechanical property. <i>Nano Select</i> , 2021, 2, 541-548.	1.9	12
24	Robust Icephobic Performance of Flexible Needles. <i>ChemNanoMat</i> , 2019, 5, 175-180.	1.5	9
25	An Interlayer of Multiple Microscale Hollow Channels Enhances the Durability of Surface Topographies. <i>ChemNanoMat</i> , 2020, 6, 373-378.	1.5	9
26	Robust electrical uni-directional de-icing surface with liquid metal (Ga90In10) and ZnO nano-petal composite coatings. <i>Materials and Design</i> , 2017, 126, 291-296.	3.3	8
27	Long time and distance self-propelling of a PVC sphere on a water surface with an embedded ZnO micro-/nano-structured hollow sphere. <i>Chemical Communications</i> , 2017, 53, 2347-2350.	2.2	7
28	Pressure sensing of liquid metal-based fiber arrays. <i>AIP Advances</i> , 2021, 11, .	0.6	5
29	Multiple synergistic effect and mechanical enhancement of lotus petiole. <i>Materials and Design</i> , 2021, 211, 110153.	3.3	5
30	A stomata-inspired superhydrophobic portable filter system. <i>RSC Advances</i> , 2021, 11, 18783-18786.	1.7	4
31	Design of a flexible surface/interlayer for packaging. <i>Soft Matter</i> , 2022, 18, 2123-2128.	1.2	4
32	The investigation of de-icing and uni-directional droplet driven on a soft liquid-metal chip controlled through electrical current. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 106, 191-197.	2.7	3
33	Surface Submillimeter Papillae Enhanced Mechanical Property of Membrane. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001080.	1.9	3
34	Integrating Design of Flexible Surface and Gradient Porosity Interlayer for Improving Impact Resistance and Thermal Isolation. <i>Advanced Engineering Materials</i> , 2022, 24, 2100963.	1.6	3
35	Controllable preparation of an ice cream-shaped hollow sphere array. <i>RSC Advances</i> , 2022, 12, 8936-8939.	1.7	3
36	Nano-cones enhanced superhydrophobic fluid-resistance reduction and thermal isolation properties of flexible pipeline. <i>Heat and Mass Transfer</i> , 2020, 56, 1077-1086.	1.2	2

#	ARTICLE	IF	CITATIONS
37	Optimal design of micro-topography on natural leaf surface. AIP Advances, 2021, 11, 095019.	0.6	2
38	Extreme Wetting Properties of Liquid Metal. , 2021, , 195-208.		1
39	Droplet motion on flexible superhydrophobic porous sponge surface. AIP Advances, 2021, 11, 115214.	0.6	1
40	Paint release control of brush. AIP Advances, 2021, 11, 015115.	0.6	0
41	Optimal Design of Flexible Micro Multi-level Topographies for Enhancing Durability of Superhydrophobic and Icephobic Functions. , 2021, , 305-322.		0