Sizhu Wu

List of Publications by Year
in descending order

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20 papers	709 citations	567281 15 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	614 citing authors

#	Article	IF	Citations
1	Multifunctional ultrathin aluminum foil: oil/water separation and particle filtration. Journal of Materials Chemistry A, 2016, 4, 18832-18840.	10.3	92
2	In Situ Reversible Control between Sliding and Pinning for Diverse Liquids under Ultra-Low Voltage. ACS Nano, 2019, 13, 5742-5752.	14.6	73
3	Switchable Underwater Bubble Wettability on Laser-Induced Titanium Multiscale Micro-/Nanostructures by Vertically Crossed Scanning. ACS Applied Materials & Interfaces, 2018, 10, 16867-16873.	8.0	65
4	Biomimetic surfaces with anisotropic sliding wetting by energy-modulation femtosecond laserÂirradiation for enhanced water collection. RSC Advances, 2017, 7, 11170-11179.	3.6	63
5	In Situ Reversible Tuning from Pinned to Roll-Down Superhydrophobic States on a Thermal-Responsive Shape Memory Polymer by a Silver Nanowire Film. ACS Applied Materials & Interfaces, 2020, 12, 13464-13472.	8.0	55
6	Noncontact Allâ€inâ€Situ Reversible Reconfiguration of Femtosecond Laserâ€Induced Shape Memory Magnetic Microcones for Multifunctional Liquid Droplet Manipulation and Information Encryption. Advanced Functional Materials, 2021, 31, 2100543.	14.9	51
7	Microholeâ€Arrayed PDMS with Controllable Wettability Gradient by Oneâ€Step Femtosecond Laser Drilling for Ultrafast Underwater Bubble Unidirectional Selfâ€Transport. Advanced Materials Interfaces, 2019, 6, 1900297.	3.7	47
8	Anisotropic Sliding of Underwater Bubbles On Microgrooved Slippery Surfaces by One-Step Femtosecond Laser Scanning. ACS Applied Materials & Interfaces, 2019, 11, 20574-20580.	8.0	43
9	Unidirectional self-transport of air bubble via a Janus membrane in aqueous environment. Applied Physics Letters, 2018, 113, .	3.3	32
10	In situtunable bubble wettability with fast response induced by solution surface tension. Journal of Materials Chemistry A, 2018, 6, 20878-20886.	10.3	30
11	One-step facile fabrication of controllable microcone and micromolar silicon arrays with tunable wettability by liquid-assisted femtosecond laser irradiation. RSC Advances, 2016, 6, 37463-37471.	3.6	29
12	The transition from incoherent to coherent random laser in defect waveguide based on organic/inorganic hybrid laser dye. Nanophotonics, 2018, 7, 1341-1350.	6.0	22
13	Dualâ€Responsive Janus Membrane by Oneâ€Step Laser Drilling for Underwater Bubble Selective Capture and Repelling. Advanced Materials Interfaces, 2019, 6, 1901176.	3.7	20
14	Multilayered skyscraper microchips fabricated by hybrid â€œall-in-oneâ€•femtosecond laser processing. Microsystems and Nanoengineering, 2019, 5, 17.	7.0	19
15	Three-level cobblestone-like TiO2 micro/nanocones for dual-responsive water/oil reversible wetting without fluorination. Applied Physics Letters, 2017, 111, .	3.3	18
16	Structural Color Surface on Transparent PDMS Fabricated by Carbon-Assisted Laser Interference Lithography for Real-Time Quantification of Soft Actuators Motion. ACS Applied Materials & Interfaces, 2020, 12, 45641-45647.	8.0	15
17	Laser-induced morphology-switchable slanted shape memory microcones for maneuvering liquid droplets and dry adhesion. Applied Physics Letters, 2022, 120, .	3.3	13
18	Smart Control for Water Droplets on Temperature and Force Dual-Responsive Slippery Surfaces. Langmuir, 2021, 37, 578-584.	3.5	9

#	Article	IF	Citations
19	Femtosecond Laser-Assisted Top-Restricted Self-Growth Re-Entrant Structures on Shape Memory Polymer for Dynamic Pressure Resistance. Langmuir, 2020, 36, 12346-12356.	3.5	7
20	Magnetic-Actuated Robot Enables High-Performance Underwater Bubble Maneuvering on Laser-Textured Biomimetic Slippery Surfaces. Langmuir, 2022, 38, 2174-2184.	3.5	6