Mengchun Wu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9406040/publications.pdf

Version: 2024-02-01

21	2,041	516710 16	752698 20
papers	citations	h-index	g-index

22	22	22	2059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silverâ€Nanoparticleâ€Colored Cotton Fabrics with Tunable Colors and Durable Antibacterial and Selfâ€Healing Superhydrophobic Properties. Advanced Functional Materials, 2016, 26, 569-576.	14.9	397
2	Hybrid Hydrogel with High Water Vapor Harvesting Capacity for Deployable Solar-Driven Atmospheric Water Generator. Environmental Science & Technology, 2018, 52, 11367-11377.	10.0	264
3	Improving atmospheric water production yield: Enabling multiple water harvesting cycles with nano sorbent. Nano Energy, 2020, 67, 104255.	16.0	203
4	Photovoltaic panel cooling by atmospheric water sorptionâ€“evaporation cycle. Nature Sustainability, 2020, 3, 636-643.	23.7	153
5	Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. Journal of Materials Chemistry A, 2018, 6, 9192-9199.	10.3	151
6	Spectrally Selective Smart Window with High Near-Infrared Light Shielding and Controllable Visible Light Transmittance. ACS Applied Materials & Interfaces, 2018, 10, 39819-39827.	8.0	136
7	Applied Voltage and Nearâ€Infrared Light Enable Healing of Superhydrophobicity Loss Caused by Severe Scratches in Conductive Superhydrophobic Films. Advanced Functional Materials, 2016, 26, 6777-6784.	14.9	114
8	Salting-in Effect of Zwitterionic Polymer Hydrogel Facilitates Atmospheric Water Harvesting. , 2022, 4, 511-520.		94
9	Integrated solar-driven PV cooling and seawater desalination with zero liquid discharge. Joule, 2021, 5, 1873-1887.	24.0	78
10	Layer-by-Layer Assembly of Fluorine-Free Polyelectrolyteâ€“Surfactant Complexes for the Fabrication of Self-Healing Superhydrophobic Films. Langmuir, 2016, 32, 12361-12369.	3.5	69
11	Sunlight Induced Rapid Oil Absorption and Passive Roomâ€Temperature Release: An Effective Solution toward Heavy Oil Spill Cleanup. Advanced Materials Interfaces, 2018, 5, 1800412.	3.7	68
12	Solar Seawater Distillation by Flexible and Fully Passive Multistage Membrane Distillation. Nano Letters, 2021, 21, 5068-5074.	9.1	66
13	Metal- and halide-free, solid-state polymeric water vapor sorbents for efficient water-sorption-driven cooling and atmospheric water harvesting. Materials Horizons, 2021, 8, 1518-1527.	12.2	60
14	Hollow spherical SiO₂ micro-container encapsulation of LiCl for high-performance simultaneous heat reallocation and seawater desalination. Journal of Materials Chemistry A, 2020, 8, 1887-1895.	10.3	53
15	Highly Transparent, Nanofiller-Reinforced Scratch-Resistant Polymeric Composite Films Capable of Healing Scratches. ACS Nano, 2015, 9, 10055-10065.	14.6	45
16	Improving the efficiency of polymer solar cells via a treatment of methanolâ€‰:â€‰water on the active layers. Journal of Materials Chemistry A, 2016, 4, 9644-9652.	10.3	23
17	Hybrid water vapor sorbent design with pollution shielding properties: extracting clean water from polluted bulk water sources. Journal of Materials Chemistry A, 2021, 9, 14731-14740.	10.3	23
18	An integrated solar-driven system produces electricity with fresh water and crops in arid regions. Cell Reports Physical Science, 2022, 3, 100781.	5.6	16

#	Article	IF	Citations
19	Conversion and storage of solar energy for cooling. Energy and Environmental Science, 2022, 15, 136-145.	30.8	14
20	Spontaneous wrinkling of layer-by-layer assembled polyelectrolyte films for humidity-responsive superhydrophobicity. Science China Chemistry, 2016, 59, 1568-1573.	8.2	7
21	Real-Time Personal Fever Alert Monitoring by Wearable Detector Based on Thermoresponsive Hydrogel. ACS Applied Polymer Materials, 2021, 3, 1747-1755.	4.4	7