

Mengchun Wu

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,041
citations

516561

16
h-index

752573

20
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22
all docs

22
docs citations

22
times ranked

2059
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Nanoparticle Colored Cotton Fabrics with Tunable Colors and Durable Antibacterial and Self-Healing Superhydrophobic Properties. <i>Advanced Functional Materials</i> , 2016, 26, 569-576.	7.8	397
2	Hybrid Hydrogel with High Water Vapor Harvesting Capacity for Deployable Solar-Driven Atmospheric Water Generator. <i>Environmental Science & Technology</i> , 2018, 52, 11367-11377.	4.6	264
3	Improving atmospheric water production yield: Enabling multiple water harvesting cycles with nano sorbent. <i>Nano Energy</i> , 2020, 67, 104255.	8.2	203
4	Photovoltaic panel cooling by atmospheric water sorption evaporation cycle. <i>Nature Sustainability</i> , 2020, 3, 636-643.	11.5	153
5	Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9192-9199.	5.2	151
6	Spectrally Selective Smart Window with High Near-Infrared Light Shielding and Controllable Visible Light Transmittance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39819-39827.	4.0	136
7	Applied Voltage and Near-Infrared Light Enable Healing of Superhydrophobicity Loss Caused by Severe Scratches in Conductive Superhydrophobic Films. <i>Advanced Functional Materials</i> , 2016, 26, 6777-6784.	7.8	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. <i>Joule</i> , 2021, 5, 1873-1887.	11.7	78
10	Layer-by-Layer Assembly of Fluorine-Free Polyelectrolyte Surfactant Complexes for the Fabrication of Self-Healing Superhydrophobic Films. <i>Langmuir</i> , 2016, 32, 12361-12369.	1.6	69
11	Sunlight Induced Rapid Oil Absorption and Passive Room Temperature Release: An Effective Solution toward Heavy Oil Spill Cleanup. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800412.	1.9	68
12	Solar Seawater Distillation by Flexible and Fully Passive Multistage Membrane Distillation. <i>Nano Letters</i> , 2021, 21, 5068-5074.	4.5	66
13	Metal- and halide-free, solid-state polymeric water vapor sorbents for efficient water-sorption-driven cooling and atmospheric water harvesting. <i>Materials Horizons</i> , 2021, 8, 1518-1527.	6.4	60
14	Hollow spherical SiO ₂ micro-container encapsulation of LiCl for high-performance simultaneous heat reallocation and seawater desalination. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1887-1895.	5.2	53
15	Highly Transparent, Nanofiller-Reinforced Scratch-Resistant Polymeric Composite Films Capable of Healing Scratches. <i>ACS Nano</i> , 2015, 9, 10055-10065.	7.3	45
16	Improving the efficiency of polymer solar cells via a treatment of methanol/water on the active layers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9644-9652.	5.2	23
17	Hybrid water vapor sorbent design with pollution shielding properties: extracting clean water from polluted bulk water sources. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14731-14740.	5.2	23
18	An integrated solar-driven system produces electricity with fresh water and crops in arid regions. <i>Cell Reports Physical Science</i> , 2022, 3, 100781.	2.8	16

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19	Conversion and storage of solar energy for cooling. <i>Energy and Environmental Science</i> , 2022, 15, 136-145.	15.6	14
20	Spontaneous wrinkling of layer-by-layer assembled polyelectrolyte films for humidity-responsive superhydrophobicity. <i>Science China Chemistry</i> , 2016, 59, 1568-1573.	4.2	7
21	Real-Time Personal Fever Alert Monitoring by Wearable Detector Based on Thermoresponsive Hydrogel. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1747-1755.	2.0	7