Mengchun Wu

List of Publications by Year
in descending order

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

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21	2,041	516561 16	752573 20
papers	citations	h-index	g-index

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

#	Article	IF	Citations
1	Conversion and storage of solar energy for cooling. Energy and Environmental Science, 2022, 15, 136-145.	15.6	14
2	Salting-in Effect of Zwitterionic Polymer Hydrogel Facilitates Atmospheric Water Harvesting. , 2022, 4, 511-520.		94
3	An integrated solar-driven system produces electricity with fresh water and crops in arid regions. Cell Reports Physical Science, 2022, 3, 100781.	2.8	16
4	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.	6.4	60
5	Real-Time Personal Fever Alert Monitoring by Wearable Detector Based on Thermoresponsive Hydrogel. ACS Applied Polymer Materials, 2021, 3, 1747-1755.	2.0	7
6	Solar Seawater Distillation by Flexible and Fully Passive Multistage Membrane Distillation. Nano Letters, 2021, 21, 5068-5074.	4.5	66
7	Integrated solar-driven PV cooling and seawater desalination with zero liquid discharge. Joule, 2021, 5, 1873-1887.	11.7	78
8	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.	5.2	23
9	Improving atmospheric water production yield: Enabling multiple water harvesting cycles with nano sorbent. Nano Energy, 2020, 67, 104255.	8.2	203
10	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.	5.2	53
11	Photovoltaic panel cooling by atmospheric water sorptionâ€“evaporation cycle. Nature Sustainability, 2020, 3, 636-643.	11.5	153
12	Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. Journal of Materials Chemistry A, 2018, 6, 9192-9199.	5.2	151
13	Spectrally Selective Smart Window with High Near-Infrared Light Shielding and Controllable Visible Light Transmittance. ACS Applied Materials & Interfaces, 2018, 10, 39819-39827.	4.0	136
14	Hybrid Hydrogel with High Water Vapor Harvesting Capacity for Deployable Solar-Driven Atmospheric Water Generator. Environmental Science & Technology, 2018, 52, 11367-11377.	4.6	264
15	Sunlight Induced Rapid Oil Absorption and Passive Roomâ€Temperature Release: An Effective Solution toward Heavy Oil Spill Cleanup. Advanced Materials Interfaces, 2018, 5, 1800412.	1.9	68
16	Spontaneous wrinkling of layer-by-layer assembled polyelectrolyte films for humidity-responsive superhydrophobicity. Science China Chemistry, 2016, 59, 1568-1573.	4.2	7
17	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.	5.2	23
18	Layer-by-Layer Assembly of Fluorine-Free Polyelectrolyteâ€“Surfactant Complexes for the Fabrication of Self-Healing Superhydrophobic Films. Langmuir, 2016, 32, 12361-12369.	1.6	69

#	Article	IF	Citations
19	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.	7.8	114
20	Silverâ€Nanoparticleâ€Colored Cotton Fabrics with Tunable Colors and Durable Antibacterial and Selfâ€Healing Superhydrophobic Properties. Advanced Functional Materials, 2016, 26, 569-576.	7.8	397
21	Highly Transparent, Nanofiller-Reinforced Scratch-Resistant Polymeric Composite Films Capable of Healing Scratches. ACS Nano, 2015, 9, 10055-10065.	7.3	45