

Renyuan Li

List of Publications by Year in descending order

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36
papers

5,984
citations

230014

27
h-index

406436

35
g-index

36
all docs

36
docs citations

36
times ranked

6335
citing authors

#	ARTICLE	IF	CITATIONS
1	Conversion and storage of solar energy for cooling. <i>Energy and Environmental Science</i> , 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	Hierarchical Nanocapsules of Cu-Doped MoS ₂ @H-Substituted Graphdiyne for Magnesium Storage. <i>ACS Nano</i> , 2022, 16, 3955-3964.	7.3	28
4	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
5	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
6	Designing a next generation solar crystallizer for real seawater brine treatment with zero liquid discharge. <i>Nature Communications</i> , 2021, 12, 998.	5.8	136
7	Real-Time Personal Fever Alert Monitoring by Wearable Detector Based on Thermo-responsive Hydrogel. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1747-1755.	2.0	7
8	Solar Seawater Distillation by Flexible and Fully Passive Multistage Membrane Distillation. <i>Nano Letters</i> , 2021, 21, 5068-5074.	4.5	66
9	Integrated solar-driven PV cooling and seawater desalination with zero liquid discharge. <i>Joule</i> , 2021, 5, 1873-1887.	11.7	78
10	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
11	Improving atmospheric water production yield: Enabling multiple water harvesting cycles with nano sorbent. <i>Nano Energy</i> , 2020, 67, 104255.	8.2	203
12	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
13	An Integrated Photocatalytic and Photothermal Process for Solar-Driven Efficient Purification of Complex Contaminated Water. <i>Energy Technology</i> , 2020, 8, 2000456.	1.8	24
14	Photovoltaic panel cooling by atmospheric water sorption-evaporation cycle. <i>Nature Sustainability</i> , 2020, 3, 636-643.	11.5	153
15	Enhanced Pollutant Adsorption and Regeneration of Layered Double Hydroxide-Based Photoregenerable Adsorbent. <i>Environmental Science & Technology</i> , 2020, 54, 9106-9115.	4.6	43
16	Two-Dimensional Ti ₃ C ₂ T _x MXene Membranes as Nanofluidic Osmotic Power Generators. <i>ACS Nano</i> , 2019, 13, 8917-8925.	7.3	235
17	Simultaneous production of fresh water and electricity via multistage solar photovoltaic membrane distillation. <i>Nature Communications</i> , 2019, 10, 3012.	5.8	233
18	Janus Graphene Oxide-Doped, Lamellar Composite Membranes with Strong Aqueous Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7252-7259.	3.2	24

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19	Synthesis of ultra-small platinum, palladium and gold nanoparticles by <i>Shewanella loihica</i> PV-4 electrochemically active biofilms and their enhanced catalytic activities. <i>Journal of Saudi Chemical Society</i> , 2018, 22, 919-929.	2.4	75
20	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
21	A 3D Photothermal Structure toward Improved Energy Efficiency in Solar Steam Generation. <i>Joule</i> , 2018, 2, 1171-1186.	11.7	527
22	A Robust CuCr ₂ O ₄ /SiO ₂ Composite Photothermal Material with Underwater Black Property and Extremely High Thermal Stability for Solar-Driven Water Evaporation. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700145.	2.7	52
23	Harvesting Water from Air: Using Anhydrous Salt with Sunlight. <i>Environmental Science & Technology</i> , 2018, 52, 5398-5406.	4.6	145
24	Composite Materials: A Robust CuCr ₂ O ₄ /SiO ₂ Composite Photothermal Material with Underwater Black Property and Extremely High Thermal Stability for Solar-Driven Water Evaporation (Adv. Sustainable Syst. 3/2018). <i>Advanced Sustainable Systems</i> , 2018, 2, 1870026.	2.7	7
25	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
26	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
27	Solar Evaporator with Controlled Salt Precipitation for Zero Liquid Discharge Desalination. <i>Environmental Science & Technology</i> , 2018, 52, 11822-11830.	4.6	249
28	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
29	SiC-C Composite as a Highly Stable and Easily Regenerable Photothermal Material for Practical Water Evaporation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8192-8200.	3.2	41
30	Dual-template engineering of triple-layered nanoarray electrode of metal chalcogenides sandwiched with hydrogen-substituted graphdiyne. <i>Nature Communications</i> , 2018, 9, 3132.	5.8	85
31	Nature-Inspired, 3D Origami Solar Steam Generator toward Near Full Utilization of Solar Energy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28517-28524.	4.0	210
32	MXene Ti ₃ C ₂ : An Effective 2D Light-to-Heat Conversion Material. <i>ACS Nano</i> , 2017, 11, 3752-3759.	7.3	1,258
33	Solar-thermal conversion and thermal energy storage of graphene foam-based composites. <i>Nanoscale</i> , 2016, 8, 14600-14607.	2.8	179
34	Are vacuum-filtrated reduced graphene oxide membranes symmetric?. <i>Nanoscale</i> , 2016, 8, 1108-1116.	2.8	50
35	Hydrophobic Light-to-Heat Conversion Membranes with Self-Healing Ability for Interfacial Solar Heating. <i>Advanced Materials</i> , 2015, 27, 4889-4894.	11.1	821
36	Rational design of nanomaterials for water treatment. <i>Nanoscale</i> , 2015, 7, 17167-17194.	2.8	176