

# Le Shi

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

4,271  
citations

279487

23  
h-index

476904

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

4494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-precipitation synthesis control for sodium ion adsorption capacity and cycle life of copper hexacyanoferrate electrodes in battery electrode deionization. <i>Chemical Engineering Journal</i> , 2022, 435, 135001.	6.6	8
2	Using copper-based biocathodes to improve carbon dioxide conversion efficiency into methane in microbial methanogenesis cells. <i>Chemical Engineering Journal</i> , 2022, 435, 135076.	6.6	14
3	Thermodynamic and Kinetic Analyses of Ion Intercalation/Deintercalation Using Different Temperatures on NiHCF Electrodes for Battery Electrode Deionization. <i>Environmental Science &amp; Technology</i> , 2022, 56, 8932-8941.	4.6	9
4	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
5	Metal-Ion Depletion Impacts the Stability and Performance of Battery Electrode Deionization over Multiple Cycles. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5412-5421.	4.6	24
6	Enabling the use of seawater for hydrogen gas production in water electrolyzers. <i>Joule</i> , 2021, 5, 760-762.	11.7	37
7	Using a vapor-fed anode and saline catholyte to manage ion transport in a proton exchange membrane electrolyzer. <i>Energy and Environmental Science</i> , 2021, 14, 6041-6049.	15.6	22
8	Efficient solar-to-acetate conversion from CO <sub>2</sub> through microbial electrosynthesis coupled with stable photoanode. <i>Applied Energy</i> , 2020, 278, 115684.	5.1	30
9	Energy Use for Electricity Generation Requires an Assessment More Directly Relevant to Climate Change. <i>ACS Energy Letters</i> , 2020, 5, 3514-3517.	8.8	10
10	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
11	Using reverse osmosis membranes to control ion transport during water electrolysis. <i>Energy and Environmental Science</i> , 2020, 13, 3138-3148.	15.6	49
12	Simultaneous production of fresh water and electricity via multistage solar photovoltaic membrane distillation. <i>Nature Communications</i> , 2019, 10, 3012.	5.8	233
13	Multi-functional 3D honeycomb ceramic plate for clean water production by heterogeneous photo-Fenton reaction and solar-driven water evaporation. <i>Nano Energy</i> , 2019, 60, 222-230.	8.2	157
14	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
15	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
16	A 3D Photothermal Structure toward Improved Energy Efficiency in Solar Steam Generation. <i>Joule</i> , 2018, 2, 1171-1186.	11.7	527
17	A Robust CuCr <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> 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
18	A highly flexible and washable nonwoven photothermal cloth for efficient and practical solar steam generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7942-7949.	5.2	182

#	ARTICLE	IF	CITATIONS
19	Harvesting Water from Air: Using Anhydrous Salt with Sunlight. <i>Environmental Science &amp; Technology</i> , 2018, 52, 5398-5406.	4.6	145
20	Composite Materials: A Robust $\text{CuCr}_2\text{O}_4/\text{SiO}_2$ Composite Photothermal Material with Underwater Black Property and Extremely High Thermal Stability for Solar-Driven Water Evaporation ( <i>Adv. Sustainable Syst.</i> 3/2018). <i>Advanced Sustainable Systems</i> , 2018, 2, 1870026.	2.7	7
21	Hybrid Hydrogel with High Water Vapor Harvesting Capacity for Deployable Solar-Driven Atmospheric Water Generator. <i>Environmental Science &amp; Technology</i> , 2018, 52, 11367-11377.	4.6	264
22	Solar Evaporator with Controlled Salt Precipitation for Zero Liquid Discharge Desalination. <i>Environmental Science &amp; Technology</i> , 2018, 52, 11822-11830.	4.6	249
23	$\text{SiC}$ 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
24	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
25	Annealing temperature effects on photoelectrochemical performance of bismuth vanadate thin film photoelectrodes. <i>RSC Advances</i> , 2018, 8, 29179-29188.	1.7	34
26	MXene $\text{Ti}_3\text{C}_2$ : An Effective 2D Light-to-Heat Conversion Material. <i>ACS Nano</i> , 2017, 11, 3752-3759.	7.3	1,258
27	Rational design of a bi-layered reduced graphene oxide film on polystyrene foam for solar-driven interfacial water evaporation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16212-16219.	5.2	259
28	Photoanodes: Vastly Enhanced $\text{BiVO}_4$ Photocatalytic OER Performance by $\text{NiCoO}_2$ as Cocatalyst ( <i>Adv. Mater. Interfaces</i> 19/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, .	1.9	0
29	Vastly Enhanced $\text{BiVO}_4$ Photocatalytic OER Performance by $\text{NiCoO}_2$ as Cocatalyst. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700540.	1.9	92
30	Microwave-Assisted Self-Doping of $\text{TiO}_2$ Photonic Crystals for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 691-696.	4.0	97