

# Three-dimensional open architecture enabling salt-rejection boosted water production efficiency

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Recent advances in interfacial solar vapor generation: clean water production and beyond. <i>Journal of Materials Chemistry A</i> , 2023, 11, 5978-6015.	10.3	19
2	Ion-Transfer Engineering via Janus Hydrogels Enables Ultrahigh Performance and Salt-Resistant Solar Desalination. <i>Advanced Materials</i> , 2023, 35, .	21.0	30
3	Recent strategies for constructing efficient interfacial solar evaporation systems. , 2023, 2, e9120062.		44
4	Patterned nanofibrous membrane via hot-pressing for enhanced solar thermal evaporation. <i>Materials Chemistry and Physics</i> , 2023, 302, 127727.	4.0	3
5	Optical-Concentrating Solar Distillation Based on Three-Dimensional Copper Foam Cubes Coated with CuS Nanoparticles and Agarose Gel. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 20120-20129.	8.0	2
6	Tree-inspired braiding fibrous frameworks enabling high-efficiency and salt-rejecting solar evaporation. <i>Journal of Materials Chemistry A</i> , 2023, 11, 13510-13518.	10.3	7
7	Plant-inspired multi-environmentally adaptive, flexible, and washable solar steam generation fabric. <i>Chemical Engineering Journal</i> , 2023, 471, 144286.	12.7	1
8	Polyoxometalates-Modulated Hydrophilic-Hydrophobic Composite Interfacial Material for Efficient Solar Water Evaporation and Salt Harvesting in High-Salinity Brine. <i>Energy and Environmental Materials</i> , 0, , .	12.8	2
9	A Molecularly Engineered Zwitterionic Hydrogel with Strengthened Anti-Polyelectrolyte Effect: from High-Rate Solar Desalination to Efficient Electricity Generation. <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	18
10	Membranes in Solar-Driven Evaporation: Design Principles and Applications. <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	8
11	Solar-driven evaporation device based on coal-derived nanomaterials for efficient and stable desalination. <i>Chemical Engineering Journal</i> , 2023, 468, 143689.	12.7	6
12	Janus microbial membrane constructed by multiple biological self-assembly for photothermal conversion. <i>Chemical Engineering Journal</i> , 2023, 472, 145003.	12.7	1
13	Fully waste-based solar evaporator in interfacial solar-driven seawater desalination. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 110879.	6.7	3
14	Passive solar desalination towards high efficiency and salt rejection via a reverse-evaporating water layer of millimetre-scale thickness. , 2023, 1, 790-799.		5
15	Biomimetic Seawater Evaporator Based on Organic 3D Light Capture and Suspension-Protection Mechanism for In Situ Marine Cultivation. <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	2
16	Boosting the Viable Water Harvesting in Solar Vapour Generation:From Interfacial Engineering to Devices Design. <i>Advanced Materials</i> , 0, , .	21.0	2
17	A hierarchical salt-rejection strategy for sustainable and high-efficiency solar-driven desalination. <i>Nano Materials Science</i> , 2023, , .	8.8	1
18	Capillary Action Promoted Enhanced Photothermal Desalination and Separation of Impurities from Water using Honeycomb Structured Porous Magnetic Nanoparticles Derived from Waste Biomass. <i>ACS ES&amp;T Engineering</i> , 2024, 4, 330-341.	7.6	2

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19	Extreme salt-resisting multistage solar distillation with thermohaline convection. <i>Joule</i> , 2023, 7, 2274-2290.	24.0	6
20	Integrated strategy of solar evaporator and steam collector configurations for interfacial evaporation water purification. <i>Solar Energy</i> , 2023, 266, 112187.	6.1	3
21	A novel slide-like cotton-based evaporator with gradient evaporation strategy for seawater resource acquirement. <i>Chemical Engineering Journal</i> , 2024, 479, 147222.	12.7	0
22	Quasi-metallic high-entropy spinel oxides for full-spectrum solar energy harvesting. <i>Matter</i> , 2024, 7, 140-157.	10.0	2
23	A tree-root mimicked Janus evaporator for solar evaporation of saturated saline water. <i>Journal of Materials Chemistry A</i> , 2023, 11, 26592-26601.	10.3	2
24	Superhydrophilic carbon@halloysite nanotube decorated sponge composites for high efficiency solar steam generation and cleanup of crude oil. <i>Desalination</i> , 2024, 573, 117194.	8.2	1
25	Multiscale Synergetic Bandgap/Structure Engineering in Semiconductor Nanofibrous Aerogels for Enhanced Solar Evaporation. <i>Nano Letters</i> , 0, , .	9.1	0
26	Dual Plasmonic Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /CuSe 2D/2D Solar Absorber and a Hydrophilic Device for Efficient Solar-Driven Water Collection. <i>Solar Rrl</i> , 2024, 8, .	5.8	0
27	Scalable absorber with tuneable water supply fabricated via centrifugal spinning for highly efficient and stable solar-driven interfacial desalination. <i>Separation and Purification Technology</i> , 2024, 336, 126329.	7.9	0
28	A multilayer mesh porous 3D-felt fabric evaporator with concave array structures for high-performance solar desalination and electricity generation. <i>Nano Energy</i> , 2024, 122, 109307.	16.0	0
29	A stable and efficient hydrogel/sponge solar evaporator with splendid water supply. <i>Applied Thermal Engineering</i> , 2024, 241, 122332.	6.0	0
30	Vascular Bundle for Exceptional Water Confinement, Transport, and Evaporation. , 2024, 6, 602-610.		0
31	Scalable, bio-inspired and self-floating bi-layer polyurethane foam solar evaporator with excellent capillary hydrodynamic effect. <i>Chemical Engineering Journal</i> , 2024, 482, 148909.	12.7	0
32	Salt rejection/discharge strategies of a reverse-distillation device with a water layer for sustainable solar desalination: From two dimensions to three dimensions. <i>Desalination</i> , 2024, 576, 117356.	8.2	0
33	Preparation of antifouling Janus photo evaporator by in-situ growth of carbon nanotubes/graphene on zeolite surface. <i>Applied Energy</i> , 2024, 359, 122673.	10.1	0
34	Condensation device design represents a critical step for solar-driven water evaporation toward practical applications. <i>Cell Reports Physical Science</i> , 2024, 5, 101794.	5.6	0
35	Spontaneous thermal energy transfer and anti-gravitational water pumping using Al <sub>2</sub> O <sub>3</sub> fiber-enhanced flexible nonwoven material as a high-performance and self-floating solar evaporator. <i>Materials Horizons</i> , 2024, 11, 2095-2105.	12.2	0
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37	Multiphase solar evaporator for localized salt harvesting and in-depth water purification. Solar Energy Materials and Solar Cells, 2024, 268, 112752.	6.2	0
38	Modular solar interfacial evaporation and crystallizationâ€™ Functional partitioning. Chemical Engineering Journal, 2024, 486, 150229.	12.7	0
39	Duckweeds mimicked self-clean Janus solar evaporator. Materials Today Physics, 2024, 43, 101394.	6.0	0
40	Integration of photothermal water evaporation with photocatalytic microplastics upcycling via nanofluidic thermal management. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.1	0
41	Solar-driven interfacial evaporation: materials design and device assembly. , 0, 4, .		0