

Solar-Driven Thermal Water Evaporation: A Review

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Solution blow spinning (SBS) and SBS-spun nanofibers: Materials, methods, and applications. <i>Materials Today Communications</i> , 2020, 25, 101656.	0.9	47
2	Plasma-Made Graphene Nanostructures with Molecularly Dispersed F and Na Sites for Solar Desalination of Oil-Contaminated Seawater with Complete In-Water and In-Air Oil Rejection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38512-38521.	4.0	32
3	Controlled heterogeneous water distribution and evaporation towards enhanced photothermal water-electricity-hydrogen production. <i>Nano Energy</i> , 2020, 77, 105102.	8.2	148
4	A Passive High-Temperature High-Pressure Solar Steam Generator for Medical Sterilization. <i>Joule</i> , 2020, 4, 2733-2745.	11.7	76
5	Janus Evaporators with Self-Recovering Hydrophobicity for Salt-Rejecting Interfacial Solar Desalination. <i>ACS Nano</i> , 2020, 14, 17419-17427.	7.3	150
6	Recent advances in solar-driven evaporation systems. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25571-25600.	5.2	77
7	Energy Matching for Boosting Water Evaporation in Direct Solar Steam Generation. <i>Solar Rrl</i> , 2020, 4, 2000341.	3.1	50
8	Reversing heat conduction loss: Extracting energy from bulk water to enhance solar steam generation. <i>Nano Energy</i> , 2020, 78, 105269.	8.2	215
9	Solar passive distiller with high productivity and Marangoni effect-driven salt rejection. <i>Energy and Environmental Science</i> , 2020, 13, 3646-3655.	15.6	101
10	Biocompatible Direct Deposition of Functionalized Nanoparticles Using Shrinking Surface Plasmonic Bubble. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000597.	1.9	14
11	Broadband Nickel Sulfide/Nickel Foam-Based Solar Evaporator for Highly Efficient Water Purification and Electricity Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	3.2	9
12	Latest development in salt removal from solar-driven interfacial saline water evaporators: Advanced strategies and challenges. <i>Water Research</i> , 2020, 177, 115770.	5.3	131
13	Solar-Driven Interfacial Water Evaporation Using Open-Porous PDMS Embedded with Carbon Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020, 3, 3378-3386.	2.5	37
14	Salt Mitigation Strategies of Solar-Driven Interfacial Desalination. <i>Advanced Functional Materials</i> , 2021, 31, 2007855.	7.8	149
15	Hybrid solar-driven interfacial evaporation systems: Beyond water production towards high solar energy utilization. <i>Materials Today</i> , 2021, 42, 178-191.	8.3	274
16	A three-dimensional numerical study of coupled photothermal and photoelectrical processes for plasmonic solar cells with nanoparticles. <i>Renewable Energy</i> , 2021, 165, 278-287.	4.3	11
17	Intensifying sustainable solar water production by steam heat internal circulation. <i>Materials Advances</i> , 2021, 2, 1731-1738.	2.6	0
18	Black Au-Decorated TiO ₂ Produced via Laser Ablation in Liquid. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6522-6531.	4.0	32

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19	Multifunctional oligomer sponge for efficient solar water purification and oil cleanup. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2104-2110.	5.2	11
20	Carbon nanotubes@silicone solar evaporators with controllable salt-tolerance for efficient water evaporation in a closed system. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17502-17511.	5.2	35
21	Sustainable Solar Evaporation while Salt Accumulation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4935-4942.	4.0	46
22	Ionic liquid enables highly efficient low temperature desalination by directional solvent extraction. <i>Nature Communications</i> , 2021, 12, 437.	5.8	42
23	Stimuli-responsive nanobubbles for biomedical applications. <i>Chemical Society Reviews</i> , 2021, 50, 5746-5776.	18.7	141
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25	Recent advances in the photothermal applications of two-dimensional nanomaterials: photothermal therapy and beyond. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17569-17591.	5.2	84
26	Plasmon Hybridization-Induced Ultra-broadband High Absorption from 0.4 to 1.8 Microns in Titanium Nitride Metastructures. <i>Plasmonics</i> , 2021, 16, 799-809.	1.8	5
27	A Nature-Inspired Monolithic Integrated Cellulose Aerogel-Based Evaporator for Efficient Solar Desalination. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10612-10622.	4.0	61
28	Photothermal Membrane Distillation toward Solar Water Production. <i>Small Methods</i> , 2021, 5, e2001200.	4.6	137
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39	Thermal Transport in Polymers: A Review. <i>Journal of Heat Transfer</i> , 2021, 143, .	1.2	32
40	Two Birds One Stone: Facile and Controllable Synthesis of the Ag Quantum Dots/Reduced Graphene Oxide Composite with Significantly Improved Solar Evaporation Efficiency and Bactericidal Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17649-17657.	4.0	22
41	Modeling the solar absorption performance of Copper@Carbon core-shell nanoparticles. <i>Journal of Materials Science</i> , 2021, 56, 13659-13672.	1.7	15
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50	Volcanic relationship between wettability of the interface and water migration rate in solar steam generation systems. <i>Nano Research</i> , 0, , 1.	5.8	3
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52	Design and Utilization of Infrared Light for Interfacial Solar Water Purification. <i>ACS Energy Letters</i> , 2021, 6, 2645-2657.	8.8	29
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93	Hierarchically structured evaporator with integrated water supply and evaporation layers to retard salt accumulation. <i>International Journal of Heat and Mass Transfer</i> , 2022, 185, 122447.	2.5	19
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129	Potato-based microporous carbon cake: Solar radiation induced water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108502.	3.3	11
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