

# Materials for solar-powered water evaporation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Chinese ink enabled wood evaporator for continuous water desalination. <i>Desalination</i> , 2020, 496, 114727.	4.0	62
2	Guaranteeing Complete Salt Rejection by Channeling Saline Water through Fluidic Photothermal Structure toward Synergistic Zero Energy Clean Water Production and <i>In Situ</i> Energy Generation. <i>ACS Energy Letters</i> , 2020, 5, 3397-3404.	8.8	129
3	Highly efficient solar water evaporation of TiO <sub>2</sub> @TiN hyperbranched nanowires-carbonized wood hierarchical photothermal conversion material. <i>Materials Today Energy</i> , 2020, 18, 100546.	2.5	23
4	Integrated Evaporator for Efficient Solar-Driven Interfacial Steam Generation. <i>Nano Letters</i> , 2020, 20, 6051-6058.	4.5	121
5	A Passive High-Temperature High-Pressure Solar Steam Generator for Medical Sterilization. <i>Joule</i> , 2020, 4, 2733-2745.	11.7	76
6	Janus Evaporators with Self-Recovering Hydrophobicity for Salt-Rejecting Interfacial Solar Desalination. <i>ACS Nano</i> , 2020, 14, 17419-17427.	7.3	150
7	A general method for selectively coating photothermal materials on 3D porous substrate surfaces towards cost-effective and highly efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24703-24709.	5.2	65
8	An all-day solar-driven vapor generator <i>via</i> photothermal and Joule-heating effects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25178-25186.	5.2	50
9	Design of self-righting steam generators for solar-driven interfacial evaporation and self-powered water wave detection. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24664-24674.	5.2	36
10	Recent advances in solar-driven evaporation systems. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25571-25600.	5.2	77
11	Plasmonic metal nitrides for solar-driven water evaporation. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 3169-3177.	1.2	14
12	Topology-Controlled Hydration of Polymer Network in Hydrogels for Solar-Driven Wastewater Treatment. <i>Advanced Materials</i> , 2020, 32, e2007012.	11.1	225
13	Modular design of solar-thermal nanofluidics for advanced desalination membranes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24493-24500.	5.2	30
14	Highly Efficient Solar Evaporator Based On a Hydrophobic Association Hydrogel. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18114-18125.	3.2	42
15	Moisture-Enabled Electricity Generation: From Physics and Materials to Self-Powered Applications. <i>Advanced Materials</i> , 2020, 32, e2003722.	11.1	175
16	Adjusting Channel Size within PVA-Based Hydrogels via Ice Templating for Enhanced Solar Steam Generation. <i>ACS Applied Energy Materials</i> , 2020, 3, 9216-9225.	2.5	36
18	A Novel Salt-Rejecting Linen Fabric-Based Solar Evaporator for Stable and Efficient Water Desalination under Highly Saline Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11845-11852.	3.2	65
19	Manipulating Interfacial Charge-Transfer Absorption of Cocrystal Absorber for Efficient Solar Seawater Desalination and Water Purification. <i>ACS Energy Letters</i> , 2020, 5, 2698-2705.	8.8	92

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20	Energy Matching for Boosting Water Evaporation in Direct Solar Steam Generation. <i>Solar Rrl</i> , 2020, 4, 2000341.	3.1	50
21	Enzyme-Regulated Healable Polymeric Hydrogels. <i>ACS Central Science</i> , 2020, 6, 1507-1522.	5.3	48
22	Reversing heat conduction loss: Extracting energy from bulk water to enhance solar steam generation. <i>Nano Energy</i> , 2020, 78, 105269.	8.2	215
23	Preparation of mechanically robust Fe <sub>3</sub> O <sub>4</sub> /porous carbon/diatomite composite monolith for solar steam generation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 45775-45786.	2.7	4
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26	Enhanced photoresponse and fast charge transfer: three-dimensional macroporous g-C <sub>3</sub> N <sub>4</sub> /GO-TiO <sub>2</sub> nanostructure for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19533-19543.	5.2	38
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28	Turning Trash into Treasure: Pencil Wasteâ€Derived Materials for Solarâ€Powered Water Evaporation. <i>Energy Technology</i> , 2020, 8, 2000567.	1.8	22
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35	Plasmonic wooden flower for highly efficient solar vapor generation. <i>Nano Energy</i> , 2020, 76, 104998.	8.2	126
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39	Sustainable Wood-Based Hierarchical Solar Steam Generator: A Biomimetic Design with Reduced Vaporization Enthalpy of Water. <i>Nano Letters</i> , 2020, 20, 5699-5704.	4.5	162
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130	Molecular Engineering of Hydrogels for Rapid Water Disinfection and Sustainable Solar Vapor Generation. <i>Advanced Materials</i> , 2021, 33, e2102994.	11.1	105
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145	Photo-triggered CO <sub>2</sub> release from mussel-inspired polymers. <i>Chemical Engineering Journal</i> , 2021, 418, 129382.	6.6	6
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