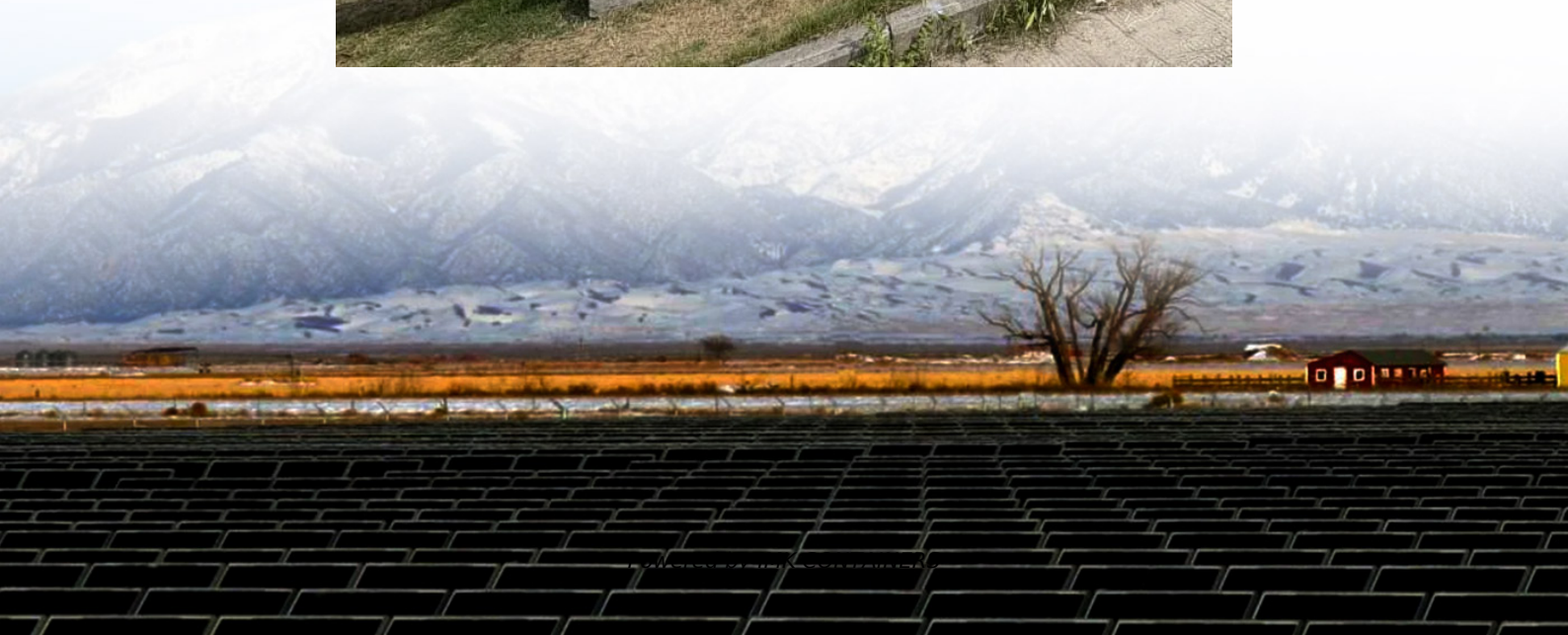


# Graphene solar water pump high power





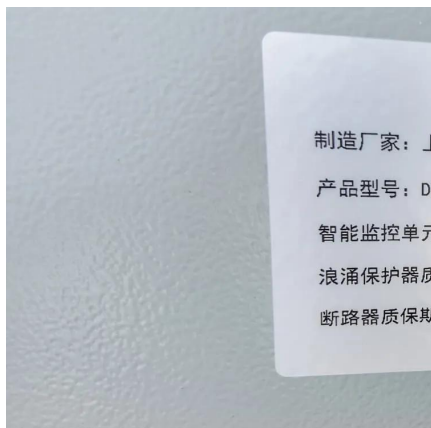
## Overview

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Here we develop a solar-powered graphene/alginate hydrogel (GAH)-based clean water extractor of super resistance to the transport of complex contaminants and ultra-antifouling capacity.



## Graphene solar water pump high power



### [Application of Graphene-Based Solar Driven Interfacial](#)

The global shortage of freshwater resources and the energy crisis have propelled solar-driven interfacial evaporation (SDIE) coupled with photocatalytic technology to become a ...

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### **The promising solar-powered water purification based on graphene**

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### **Low-Cost, Eco-Friendly, and High-Performance 3D Laser-Induced Graphene**

Low-Cost, Eco-Friendly, and High-Performance 3D Laser-Induced Graphene Evaporator for Continuous Solar-Powered Water Desalination

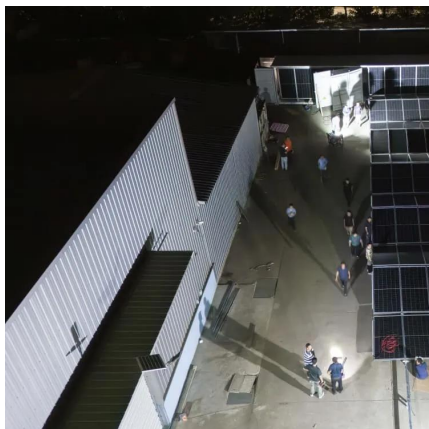
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It remains a significant challenge to develop high-performance artificial light-driven ion pumps for solar energy harvesting in all solid-state materials. Here, we exploit the benefits of short channel ...

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Solar-powered water purification is able to gain freshwater from nonedible water by harnessing inexhaustible and pollution-free sunlight energy, which is undergoing booming ...

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#### **Galactomannan/graphene oxide/Fe<sub>3</sub>O<sub>4</sub> hydrogel**





### evaporator for solar water

With the increasing scarcity of freshwater resources and electricity, solar water evaporation and photothermal power generation are effective ways to solve energy shortages ...

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### Highly pure water generation via solar driven evaporation ...

The water transport layer composed of multiple layers of pristine cleanroom wipe, together with the photothermal-photocatalysis layer made of multiple layers of graphene ...

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### Efficient photo-driven ion pump through slightly reduced ...

It remains a significant challenge to develop high-performance artificial light-driven ion pumps for solar energy harvesting in all solid-state materials. Here, we exploit the benefits ...

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Solar-powered water purification is able to gain freshwater from nonedible water by harnessing inexhaustible and pollution-free sunlight energy, which is undergoing booming development to

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Recently, Dr. Cai Jinming, the founder of Morion Nanotech, led his research team in successfully developing a flexible heterogeneous graphene oxide structure (HGOS) for high ...

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