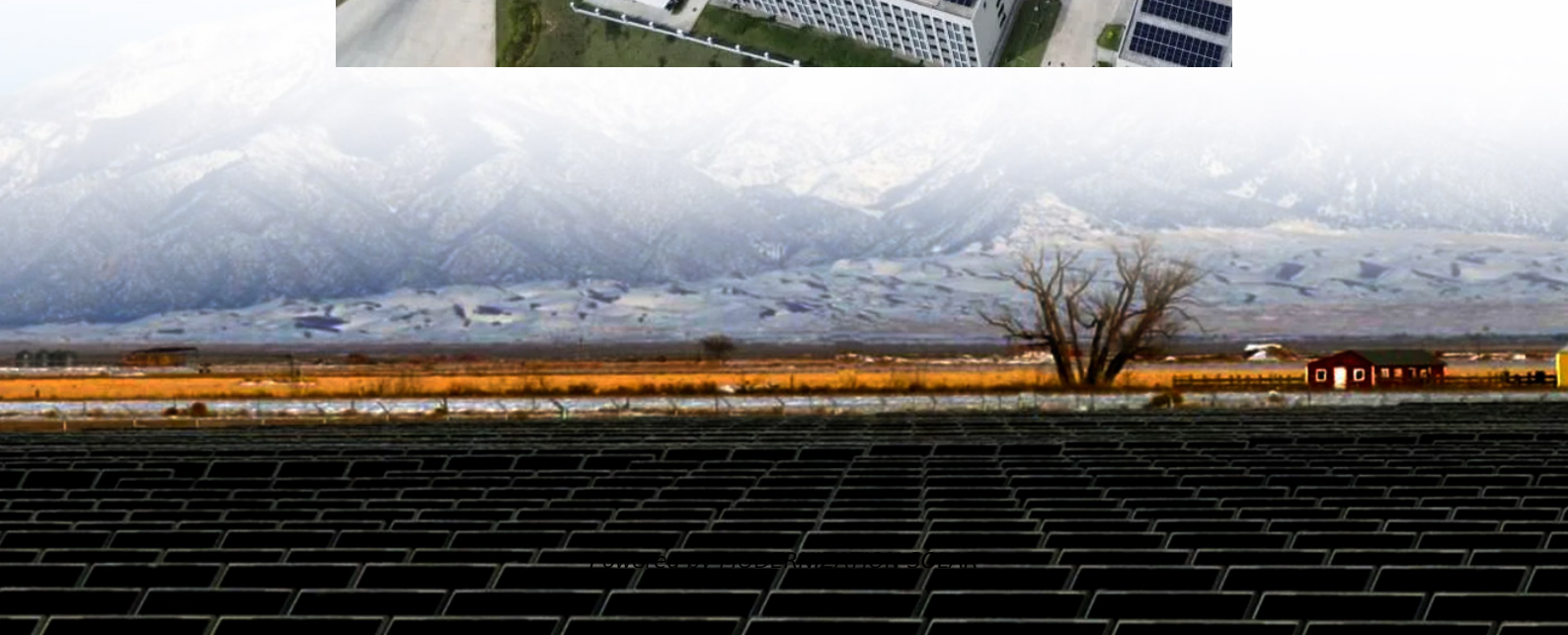


Solar graphene water pump high power





Overview

Why do we use graphene based materials for solar power?

Due to the fascinating properties, numerous graphene-based materials were devoted to the solar-powered system from interfacial solar-steam generation, towards solar pollutants degradation and even atmospheric water harvesting.

What are graphene-based solar water purification systems?

Above all, the graphene-based SAWHs are new-born water purification systems, which currently attract much interest and many researches to further improve its water yield and the feasibility of practical utilization. The past few years have witnessed the fast development of graphene-based materials in the applications of solar water purification.

Can solar-powered graphene/alginate hydrogel-based clean water extractor withstand complex contaminants?

However, complex contaminants in surface water accompanied with environment pollution set huge obstacles for harvesting clean water via previous strategies. 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.

Is graphene a solar-steam generator?

Dating back to 2014, Ghasemi 48 and coworkers introduced exfoliated graphite as an interfacial solar-steam generator (ISSG), in which evaporation rate is approximately $1 \text{ kg m}^{-2} \text{ h}^{-1}$ under the sunlight irradiation of 1 kW m^{-2} (i.e., one sun). Then, by using CVD method, Ito 49 and coworkers constructed a 3D graphene ISSG.



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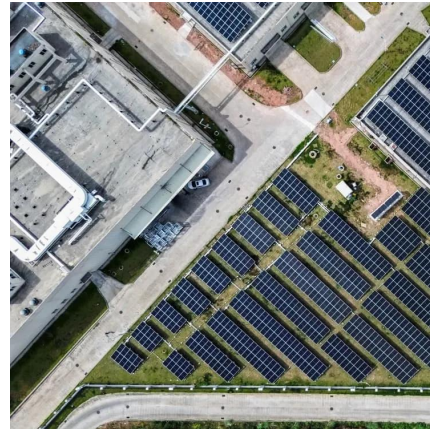
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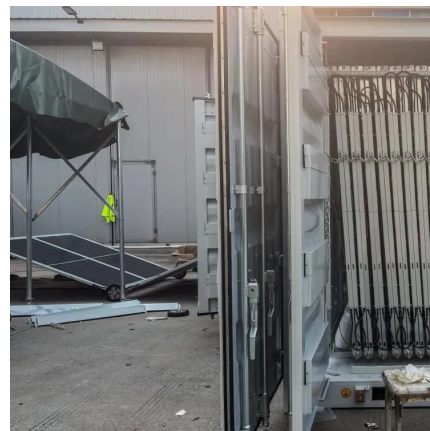
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