

Solar Energy South Africa

Solar power generation and graphene heating



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Interfacial solar-driven steam and electricity co-generation using

Water evaporation, one of the key steps in the natural water cycle, plays a ubiquitous role in a myriad of applications, such as evaporative cooling, 1, 2 paper industry, 3 power generation, 4 ...

Graphene for Energy Applications , Graphene Flagship

Graphene for energy applications. As the global population expands, the demand for energy production and storage constantly increases. Graphene and related materials (GRMs), with their high surface area, large electrical conductivity, ...



The promising solar-powered water purification based ...

Recently, the interfacial solar-steam generation system has been developed, which greatly improved the solar-steam efficiency (energy needed to convert liquid water to water vapor divided by all input solar power) from about 24% to ...

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