

PRX Energy 3, 043006 (2024) - Published 5 November, 2024 The authors use a numerical model to explore a general latent heat storage system and find that the shape of the container and its angle of incidence significantly impact the rate of ...

Living photosynthetic systems can achieve highly efficient solar energy conversion at a small scale or low light intensities; however, the photoconversion is inefficient (~ 3 %) at the scale of crops or ecosystems and ...

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For example, in Europe in 2022, energy dependence on gas imports from Russia led to energy shortages and escalating prices. In this work, we estimate the limits of primary energy supply based on renewables, mainly ...

Russia launched a widespread attack on Ukraine's energy infrastructure overnight, forcing the country to implement emergency power outages, Ukrainian authorities said on Friday. "The ...

Russia is a global energy powerhouse -- it supplies about 10% of the world's oil supplies and 40% of Europe's natural gas. So, the raft of economic sanctions on Russia has ...

The transport dynamics of photoexcited electrons in an iron-gold model system are studied with a combination of advanced experimental and computational methods, revealing transport mechanisms with implications for efficient light-energy conversion technologies.

Renewable energy growth comes mostly from electricity sources like solar photovoltaics and wind energy. However, most of the global final energy consumption occurs in the form of fuels. Thus, the direct conversion of sunlight energy into fuels could be a game changer in the energy transition.

PRX Energy 3, 013007 (2024) - Published 13 February 2024 Synopsis: A Sunny Path to Green Hydrogen Computational materials design is combined with synthesis and electrochemical characterization to propose nine oxide semiconductors as ...

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