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Because of the rapid rise of the efficiency, perovskite solar cells are currently considered as the most promising next-generation photovoltaic technology. Much effort has been made to improve the ...

A novel multi-objective optimization model of solar-driven methanol steam reforming system combining response surface methodology and three-dimensional numerical simulation Energy Conversion and ...

?(IV)???(SnO2)?????(ETL)??????????????????????????(f-PSCs)?????? ?????????????????????????????? ...

Two birds with one stone: defect passivation and energy level optimization achieved by using ionic liquid additives for printable mesoscopic perovskite solar cells with efficiency beyond ...

Yao, Zhi,???????????,???,????United States Department of Energy?????????????,??H???7,??????30?,????????244?,??????? ...

Coating technologies are a commonly used way to protect metals against corrosion. However, with more and more severe service environments of materials, many protective coating systems often are not ...

Climate change alters the amount and spatiotemporal characteristics of solar radiation at the surface. How this affects the stability of solar energy has not yet been explored on a global scale. In this study, ...

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As a unique probe, the precision measurement of pp solar neutrinos is important for studying the sun"s energy mechanism as it enables monitoring the thermodynamic equilibrium and studying neutrino ...

A Chinese research team has realized the fractional quantum anomalous Hall state of photons for the first time by using an independently developed quantum experimental system, the ...

High-Oriented SnO2 Nanocrystals for Air-Processed Flexible Perovskite Solar Cells with an Efficiency of 23.87% Tin (IV) oxide (SnO2) electron transport layer (ETL) emerges as the most promising n-type ...

Inverted organic solar cells (OSCs) containing high work-function metal anodes (e.g., Ag or Au) and modified indium tin oxide (ITO) cathodes are more compatible with large area printing technique and ...

Inorganic Halide Perovskite Solar Cells: Progress and Challenges Jingjing Tian, Qifan Xue,* Qin Yao, Ning Li, Christoph J. Brabec, and Hin-Lap Yip* time, is the fastest growing research field

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