Solar Energy from Seoul Institute of Microsystem and Information Technology

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The results of the study indicate that the transition efficiency rate of Perovskite solar cells is comparable to that of high-efficiency crystalline silicon solar cells, which are considered the ...

A team of South Korean researchers has set a new world record in power conversion efficiency* for perovskite/CIGS (copper indium gallium selenide) tandem solar cells**, demonstrating the ...

The results of the study indicate that the transition efficiency rate of Perovskite solar cells is comparable to that of high-efficiency crystalline ...

JinkoSolar has announced that it has achieved a significant breakthrough in the development of its N-type TOPCon-based perovskite tandem solar cell.

Chinese scientists who have turned hard silicon solar cells into an elastic form as thin and soft as paper say their breakthrough technology has broad applications in aerospace, ...

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In this work, typical meteorological year (TMY) data made available by the Korea institute of energy research (KIER) and the National renewable energy laboratory (NREL) are used for ...

Chinese researchers have developed a special technology to tailor the edges of textured crystalline silicon (c-Si) solar cells, based on ...

This article provides a state-of-the-art review of the application of IoT in effective solar energy utilization. The

use of IoT in solar energy tracking, power point tracking, energy harvesting, ...

Chinese researchers have developed a special technology to tailor the edges of textured crystalline silicon (c-Si) solar cells, based on which the solar cells can be bent and ...

We combined a solution-processed monolithic perovskite/Si tandem solar cell with MAPb (I 0.85 Br 0.15) 3 for the direct conversion of solar energy into hydrogen energy, leading to the high ...

This model was applied to predict one-hour ahead solar radiation and spatially map solar energy potential.

e/c-silicon tandem solar cells particularly promising for achieving high efficiency. However, performance of flexible perovskite/c-silicon monolithic tandem solar cells still greatly lags, due ...

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