

The small-area solar cells achieved efficiencies of 26.1%. The 1-cm<sup>2</sup> devices and 5 cm × 5 cm mini-modules delivered efficiencies of 24.3% and 21.4%, respectively.

The installation of solar panels on balconies is becoming increasingly popular in Vienna. This trend is driven by falling prices of solar technology, making it a cost-effective ...

Semiconductors and Solar Cells; Quantum Materials Modelling; Dynamics of Perovskite Photovoltaics; Quantum Field Theory (QFT) ... Investigating semiconductor materials used as ...

CIGS films were treated in In-S aqueous solution for high-efficiency CIGS solar cells. The In-S aqueous solution contained InCl<sub>3</sub> and CH<sub>3</sub>CSNH<sub>2</sub> (thioacetamide). The ...

The first-principle calculations were performed using Vienna ab-initio simulation package (VASP). 6 In VASP, the projector augmented waves (PAW), 7 which are a ...

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