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We discuss the major challenges in silicon ingot production for solar applications, particularly optimizing production yield, reducing costs, ...

For tandem solar cells to be deployed on rooftops, solar farms, and industrial facilities, they must endure years of high temperatures, humidity, and intense sunlight. ...

A research team led by Prof. Ye Jichun from the Ningbo Institute of Materials Technology and Engineering (NIMTE) of the Chinese Academy of Sciences, in collaboration ...

Silicon solar glass, a remarkable technology in renewable energy, is defined by its unique composition that combines the properties of silicon and glass. Primarily fabricated from ...

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This chapter examines the fundamental role of glass materials in photovoltaic (PV) technologies, emphasizing their structural, optical, and spectral conversion properties that ...

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Fabrication and characterization of solar cells based on multicrystalline silicon (mc-Si) thin films are described and synthesized from low-cost soda-lime glass (SLG).

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