

# **Solar energy materials and solar cell**





## Overview

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What is solar energy materials & solar cells?

An International Journal Devoted to Photovoltaic, Photothermal, and Photochemical Solar Energy Conversion Solar Energy Materials & Solar Cells is intended as a vehicle for the dissemination of research results on materials science and technology related to photovoltaic, photothermal and photoelectrochemical solar energy conversion.

What is a solar cell made of?

Sunlight is composed of photons, or particles of solar energy. These photons contain varying amounts of energy that correspond to the different wavelengths of the solar spectrum. A PV cell is made of semiconductor material.

What is a solar cell?

Solar Cells, covering single crystal, polycrystalline and amorphous materials utilising homojunctions and heterojunctions, Schottky barriers, liquid junctions and their applications. Also of interest is analysis of component materials, individual cells and complete systems, including their economic aspects.

What is a photovoltaic (PV) cell?

A photovoltaic (PV) cell, commonly called a solar cell, is a nonmechanical device that converts sunlight directly into electricity. Some PV cells can convert artificial light into electricity. Sunlight is composed of photons, or particles of solar energy.

What types of solar cells are available?

Dr. Ivan Gordon covers all manuscripts on wafer-based mono-crystalline and multicrystalline silicon solar cells, and silicon-based thin film solar cells (crystalline silicon, amorphous silicon, fine microcrystalline silicon, micromorph tandems).



How do I write a special issue of solar energy materials?

Special issues of Solar Energy Materials and Solar Cells must be pre-approved by the editor-in-chief and should include a collection of high quality papers from a unique or rapidly-advancing topic. In some cases, they can also be assembled from a recent symposium or conference.



## Solar energy materials and solar cell

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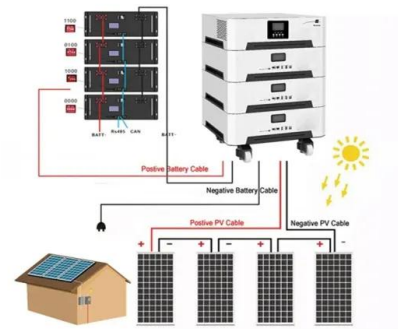
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### **Reporting solar cell efficiencies in Solar Energy Materials and Solar**

In order to improve the accuracy, validity, reliability and reproducibility of reported power conversion efficiencies for solar cells, the journal, Solar Energy Materials and Solar ...



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#### APPLICATION SCENARIOS



### Solar Energy Materials and Solar Cells

Scope Solar Energy Materials & Solar Cells is intended as a vehicle for the dissemination of research results on materials science and technology related to photovoltaic, photothermal and photoelectrochemical solar energy conversion. ...

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