

Solar energy materials

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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For example, rapid progress in perovskite research highlights its potential for making low-cost and highly efficient solar cells. This review presents a comprehensive overview of emerging active materials for solar cells, covering fundamental concepts, progress, and ...

This Review summarizes the types of materials used in the photoactive layer of solution-processed organic solar cells, discusses the advantages and disadvantages of combinations of different ...

Photovoltaics, which directly convert solar energy into electricity, offer a practical and sustainable solution to the challenge of meeting the increasing global energy demand. According to the Shockley-Queisser (S-Q) detailed-balance model, the limiting photovoltaic energy conversion efficiency for a single-junction solar cell is 33.7%, for an ...

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