

Where can I find photovoltaic research publications?

Find photovoltaic research publications in the NREL publications database. NREL maintains records of the highest confirmed conversion efficiencies for research cells and champion modules. View the latest charts, and download our efficiency data.

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?

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.

Does Oxford PV set a new solar cell world record?

Oxford PV sets new solar cell world record. 2023-5-24 Chen T, Li S, Li Y, et al. Compromising charge generation and recombination of organic photovoltaics with mixed diluent strategy for certified 19.4% efficiency. *Advanced Materials*, 2023, 35 (21): 2300400

What is solar technology?

Solar technology refers to technology that uses solar radiation to generate electricity or utilize thermal energy. Solar energy is environmentally friendly, renewable, noiseless, and pollution-free and does not require fuel, making it a form of renewable energy. A solar cell (SC) comprises multiple thin layers of semiconductor materials.

Where can I find a solar cell efficiency chart?

National Renewable Energy Laboratory (NREL). Best research--Cell efficiency chart. 2024, available at website of NREL Green M A, Dunlop E D, Siefert G, et al. Solar cell efficiency tables (version 61). *Progress in Photovoltaics: Research and Applications*, 2023, 31 (1): 3-16

Best Research-Cell Efficiency Chart. ... The plot is not copyrighted and may be used in presentations and publications, with a notation that states: "This plot is courtesy of the ..."

Solar Energy Materials and Solar Cells is an academic journal published by Elsevier BV. The journal publishes majorly in the area(s): Solar cell & Thin film. It has an ISSN identifier of 0927 ...

Key Takeaways. Panasonic Solar, REC Group and Q Cells offer the best solar panels according to our research evaluating 171 individual solar panels; The cost of installing solar panels ranges, on ...

Solar Cells, covering single crystal, polycrystalline and amorphous materials utilising ...

Publications. NREL solar researchers actively publish their latest scientific findings and breakthroughs in a newsletter, journal articles, conference papers, technical reports, and ...

Solar cells are devices for converting sunlight into electricity. Their primary element is often a semiconductor which absorbs light to produce carriers of electrical charge.

International Scientific Journal & Country Ranking. SCImago Institutions Rankings SCImago Media Rankings SCImago Iber SCImago Research Centers Ranking SCImago Graphica ...

Perovskite solar cells including charge transport material fabricated using a ...

2 ???· JA Solar said the result was achieved for its Bycium+ solar cell, which reached a power conversion efficiency of 26.07%, an open-circuit voltage of 748.6 mV, a short-circuit ...

Solar Cells, covering single crystal, polycrystalline and amorphous materials utilising homojunctions and heterojunctions, Schottky barriers, liquid junctions and their applications. ...

Solar Energy Materials and Solar Cells ranked first with 4495 publications, constituting approximately 4.7% of all publications in the dataset. Solar Energy ranked second ...

A solar cell (SC) comprises multiple thin layers of semiconductor materials. When sunlight shines on an SC, photons excite electrons in the semiconductor materials, ...

Top Journals in Energy which contain many articles on solar cells, photovoltaics, and renewable energy technologies can be found in the following list:...

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Emiliano B. KAUST claims 33.7% efficiency for perovskite/silicon tandem solar cell. 2023-5-30, available at website of PV-Magazine LONGi Website. LONGi sets a new world ...

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Perovskite solar cells including charge transport material fabricated using a reverse-doping process have the highest certified efficiency for cells of 1-cm² active area and ...



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