Journal of solar energy materials and solar cells

What is the impact factor of solar energy materials and solar cells?
Sol. Energy Mater. Sol. Cells Solar Energy Materials and Solar Cells is a scientific journal published by Elsevier covering research related to solar energy materials and solar cells. According to the Journal Citation Reports,Solar Energy Materials and Solar Cells has a 2020 impact factor of 7.267.

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 the SJR of solar energy materials and solar cells?
The Solar Energy Materials and Solar Cells has an SJR (SCImago Journal Rank) of 1.503,according to the latest data. It is computed in the year 2023. In the past 9 years,this journal has recorded a range of SJR,with the highest being 2.190 in 2014 and the lowest being 1.459 in 2017.

What is the ISSN of solar energy materials & solar cells Journal?
The ISSN of Solar Energy Materials and Solar Cells journal is 09270248. An International Standard Serial Number (ISSN) is a unique code of 8 digits. It is used for the recognition of journals,newspapers,periodicals,and magazines in all kind of forms,be it print-media or electronic.

What is the rank of solar energy materials and solar cells?
The overall rank of Solar Energy Materials and Solar Cells is 2127. According to SCImago Journal Rank (SJR),this journal is ranked 1.503. SCImago Journal Rank is an indicator,which measures the scientific influence of journals.

What is the impact if 2022 of solar energy materials and solar cells?
The Impact IF 2022 of Solar Energy Materials and Solar Cells is 7.31,which is computed in 2023 as per its definition. Solar Energy Materials and Solar Cells IF is increased by a factor of 0.55 and approximate percentage change is 8.14% when compared to preceding year 2021,which shows a rising trend.

Solar Energy Materials and Solar Cells is a scientific journal published by Elsevier covering research related to solar energy materials and solar cells. According to the Journal Citation Reports, the journal has a 2018 impact factor of 6.019.

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(APC) paid by authors or their institutions.; Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 27.4 ...

eld of novel materials for solar photovoltaic devices, including emerging technologies such as perovskite solar cells. It evaluates the eciency and durability of dierent generations of materials in solar photovoltaic devices and compares them with traditional materials. It investigates the scalability and cost-eectiveness of producing novel

The photovoltaic effect is used by the photovoltaic cells (PV) to convert energy received from the solar radiation directly in to electrical energy [3].The union of two semiconductor regions presents the architecture of PV cells in Fig. 1, these semiconductors can be of p-type (materials with an excess of holes, called positive charges) or n-type (materials with excess of ...

Organic solar cells, also known as organic photovoltaics (OPV), utilize organic materials to convert sunlight into electricity. They operate based on the absorption of photons ...

Dr. Greg P. Smestad served as an editor for Solar Energy Materials and Solar Cells from 1990 to 2016. This is an international peer-reviewed journal devoted to the promotion of photovoltaic ...

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. Materials science is taken in the broadest possible sense and encompasses physics, chemistry, optics, materials ...

This work explores the underlying principles of solar energy exploitation, focusing on energy collection technologies as the primary means of solar energy conversion. The physics of the state-of-the-art mechanisms, the photovoltaic effect, and the advancements that have driven the transformation of solar energy into a viable and sustainable ...

Editors select a small number of articles recently published in the journal that they believe will be particularly interesting to readers, or important in the respective research area. ... Solar energy materials are used to harness the sun"s energy to the benefit of mankind. ... Among their applications we note solar cells of many types ...

He is currently associated with the journal in an advisory and emeritus capacity in which he facilitates special issues, as well as underrepresented and novel concepts and materials. Greg P. Smestad, Ph.D., together with the other editors of Elsevier"s Solar Energy Materials and Solar Cells, wrote an editorial on solar cell efficiency ...

select article Commentary on Technoeconomic Analysis of High-Value, Crystalline Silicon Photovoltaic

Module Recycling Processes [Solar Energy Materials and Solar Cells 238 (2022) 111592]

Conventional solar cells are fabricated to use the visible range, which contains a substantial fraction of the solar energy spectrum. If we could also use the ultraviolet (UV) or/and infrared (IR) parts of the spectrum, solar cells efficiency could be increased. Some materials are capable of generating more than one visible or near infrared photon after absorbing a UV photon.

3 The perspective of solar energy. Solar energy investments can meet energy targets and environmental protection by reducing carbon emissions while having no detrimental influence on the country"s development [32, 34] countries located in the "Sunbelt", there is huge potential for solar energy, where there is a year-round abundance of solar global horizontal ...

The latest impact score (IS) of the Solar Energy Materials and Solar Cells is 7.31 is computed in the year 2023 as per its definition and based on Scopus data. 7.31 It is increased by a factor of around 0.55, and the percentage change is 8.14% compared to the preceding year 2021, indicating a rising trend.The impact score (IS), also denoted as the Journal impact score ...

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Progress in Photovoltaics: Research and Applications is a leading journal in the field of solar energy, focused on research that reports substantial progress in efficiency, energy yield and reliability of solar cells. It aims to reach all interested professionals, researchers, and energy policy-makers. We publish original research and timely information about alternative energy ...

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Abréviation Standard du Journal (ISO4) - Solar Energy Materials and Solar Cells. Solar Energy Materials and Solar Cells Abréviation Standard du Journal (ISO4): « Sol. Energy Mater Sol. Cells ».L"ISO 4 (Information et documentation - Règles pour l"abréviation des mots dans les titres et des titres des publications) est une norme de l"Organisation internationale de normalisation (ISO) ...

2.1 Solar photovoltaic systems. Solar energy is used in two different ways: one through the solar thermal route using solar collectors, heaters, dryers, etc., and the other through the solar electricity route using SPV, as shown in Fig. 1.A SPV system consists of arrays and combinations of PV panels, a charge controller for direct current (DC) and alternating current ...

Comment on "towards high-efficiency industrial p-type mono-like Si PERC solar cells" [solar energy materials & solar cells volume 204, January 2020, 110202] Luigi Abenante Article 110598

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Materials science is taken in the broadest possible sense and encompasses physics, chemistry, optics, materials fabrication and analysis for all types of materials. Solar Energy Materials and Solar Cells is a scientific journal published by Elsevier covering research related to solar energy materials and solar cells.

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