

What is the IEEE Journal of photovoltaics?

The IEEE Journal of Photovoltaics is a peer-reviewed publication reporting on original & significant research results in the field of photovoltaics.

What is a photovoltaic journal?

The PV field is diverse in its science base ranging from semiconductor and PV device physics to optics and the materials sciences. The journal publishes articles that connect this science base to PV science and technology. The intent is to publish original research results that are of primary interest to the photovoltaic specialist.

Are utility-scale photovoltaic plants affecting land-use impacts?

Abstract--The rapid deployment of large numbers of utility-scale photovoltaic (PV) plants in the United States, combined with heightened expectations of future deployment, has raised concerns about land requirements and associated land-use impacts.

504 IEEE JOURNAL OF PHOTOVOLTAICS, VOL. 10, NO. 2, MARCH 2020 postirradiation dark I-V curves of the NW solar cells present an ideality factor  $n \sim 2$ , which is symptomatic of solar cells dominated by Shockley-Read-Hall recombination localized in either the depletion region or at the surface [17]. At 350 keV, the GaAs NW solar cells show a ...

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IEEE JOURNAL OF PHOTOVOLTAICS, VOL. 2, NO. 3, JULY 2012 303 Strong Internal and External Luminescence as Solar Cells Approach the Shockley-Queisser Limit Owen D. Miller, Eli Yablonovitch, and Sarah R. Kurtz Abstract--Absorbed sunlight in a solar cell produces electrons and holes. However, at the open-circuit condition, the carriers have

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The Future of Solar Energy considers only the two widely recognized classes of technologies for converting solar energy into electricity -- photovoltaics (PV) and concentrated solar power (CSP), sometimes called solar thermal) -- in their current and plausible future forms.

Abstract: It may be helpful for prospective authors to be aware of the policies for the publication of manuscripts concerned with the simulation of photovoltaic devices and systems in the IEEE Journal of Photovoltaics (J-PV). This editorial is intended to clarify the policy and expectations. While the members of the Editorial Board are not listed as coauthors, their inputs ...

This index covers all technical items - papers, correspondence, reviews, etc. - that appeared in this periodical during the year, and items from previous years that were commented upon or corrected in this year. Departments and other items may also be covered if they have been judged to have archival value. The Author Index contains the primary entry for each item, ...

Briefs: Are short reports of preliminary results on completed work that are of current interest to many workers in the field. The standard length of a Brief is 3 published pages excluding references, bios and photos. Correspondence: Brief items that describe a use for or magnify the meaning of a single technical point, includes suggestions for new work, errata, and comments ...

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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 ...

IEEE JOURNAL OF PHOTOVOLTAICS, VOL. 12, NO. 1, JANUARY 2022 31 TOPCon Silicon Solar Cells With Selectively Doped PECVD Layers Realized by Inkjet-Printing of Phosphorus Dopant Sources Zohreh Kiaee, Tobias Fellmeth, Bernd Steinhauser, ...

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In this article, we measured and estimated the outputs of car-mounted PV panels under actual driving conditions and different effective shading angles. On a sunny day, the performance ratio (PR) decreased to 0.99, despite the decrease in module temperature caused by the increased wind speed when driving. The PR decreased because of the effect of partial shading over the ...

3 days ago; Solar Photovoltaic (SPV) systems can exhibit multiple local maxima in their current-voltage (I-V) and power-voltage (P-V) characteristics due to partial shading at the panel or ...

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**Abstract:** We demonstrate the scaling up of the perovskite photovoltaic technology with minimal performance losses by developing stable device architecture with industrially compatible processes. The monofacial (aperture area: 784 cm<sup>2</sup>) and bifacial (aperture area: 781 cm<sup>2</sup>) perovskite solar modules exhibit a power conversion efficiency of 13.1% and 11.9%, respectively.

Energies, 2022. Photovoltaic technology has become a huge industry, based on the enormous applications for solar cells. In the 19th century, when photoelectric experiments started to be conducted, it would be unexpected that these optoelectronic devices would act as an essential energy source, fighting the ecological footprint brought by non-renewable sources, since the ...

I also call your attention in particular to six papers invited for contribution from the IEEE Photovoltaic Specialists Conference (PVSC). These include two papers related to Si technology and two related to module design and reliability. These works were considered to be among the most important or impactful at the PVSC last summer, and these, along with those ...

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