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A study was conducted to determine and compare the measured energy production of photovoltaic (PV) modules for three climatically diverse locations: Cocoa, Florida; Eugene, ...

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Consolidated tables showing an extensive listing of the highest independently confirmed efficiencies for solar cells and modules are presented. Guidelines for inclusion of results into these tables are outlined and new ...

1 INTRODUCTION. Since January 1993, "Progress in Photovoltaics" has published six monthly listings of the highest confirmed efficiencies for a range of photovoltaic cell and module technologies. 1-3 By providing guidelines for inclusion of results into these tables, this not only provides an authoritative summary of the current state-of-the-art but also encourages ...

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ACCELERATED PUBLICATION Solar cell efficiency tables (version 42) Martin A. Green^{1*}, Keith Emery², Yoshihiro Hishikawa³, Wilhelm Warta⁴ and Ewan D. Dunlop⁵ 1 Australian Centre for Advanced Photovoltaics, University of New South Wales, Sydney, 2052, Australia 2 National Renewable Energy

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Progress in Photovoltaics: Research and Applications. Volume 22, Issue 8 p. 903-909. Research Article. A new method to characterize bifacial solar cells. Jai Prakash Singh, ... August 2014. Pages 903-909. References; Related; Information; Close Figure Viewer. Return to Figure. Previous Figure Next Figure. Caption. Download PDF.

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Guidelines for inclusion of results into these tables are outlined and new entries since July 2014 are reviewed. ... {Solar cell efficiency tables (Version 45)}, author={Martin A. Green and Keith Emery and Yoshihiro Hishikawa and Wilhelm Warta and Ewan D. Dunlop}, journal={Progress in Photovoltaics: Research and Applications}, year={2015 ...

Perovskite solar cells have demonstrated efficiencies over 20%, but this has not been reproduced at large areas. We explore the theoretical limit to single large area perovskite solar cell efficiency, with different front conductive layers: first, the standard n-i-p structure with a transparent conductive electrode (TCE) at the substrate, and then structures that include a ...

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University of New South Wales - Cited by 126,967 - Photovoltaics - Semiconductors - Solar Cells - Conversion Efficiency ... M Green, E Dunlop, J Hohl-Ebinger, M Yoshita, N Kopidakis, X Hao. ... Prog. Photovoltaic Res. Applic. 8, 2000. 996: 2000: Intrinsic concentration, effective densities of ...

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Consolidated tables showing an extensive listing of the highest independently confirmed efficiencies for solar cells and modules are presented. Guidelines for inclusion of results into these tables are outlined, and new entries since June 2020 are reviewed. In this issue, charts showing efficiency improvements since 1993 are included as well as cell and module area definitions ...

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