

# Solar cell efficiency tables progress in photovoltaics version 42

1 INTRODUCTION. Since January 1993, "Progress in Photovoltaics" has published 6 monthly listings of the highest confirmed efficiencies for a range of photovoltaic cell and module technologies. 1-4 By ...

Guter, W. et al. Current-matched triple-junction solar cell reaching 41.1% conversion efficiency under concentrated sunlight. Appl. Phys. Lett. 94, 223504 (2009). France, R. M., Dimroth, F., Grassman, T. J. & King, R. R. Metamorphic epitaxy for multijunction solar cells. MRS Bull. 41, 202-209 (2016).

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 July 2019 are reviewed.

ACCELERATED PUBLICATION Solar cell efficiency tables (version 42) Martin A. Green<sup>1\*</sup>, Keith Emery<sup>2</sup>, Yoshihiro Hishikawa<sup>3</sup>, Wilhelm Warta<sup>4</sup> and Ewan D. Dunlop<sup>5</sup> 1 Australian Centre for Advanced Photovoltaics, University of New South Wales, Sydney, 2052, Australia 2 National Renewable Energy Laboratory, 15013 Denver West Parkway, Golden, ...

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Solar Cell efficiency tables (version 41); Progress in Photovoltaics. January 2013. Authors: M.A. Green. Keith A. Emery. National Renewable Energy Laboratory. Yoshihiro ...

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Progress in Photovoltaics: Research and Applications. Volume 23, Issue 1 p. 1-9. Accelerated Publication. Free Access. Solar cell efficiency tables (Version 45) Martin A. Green, Corresponding Author. Martin A. Green. Australian Centre for Advanced Photovoltaics, University of New South Wales, Sydney, 2052 Australia.

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Progress in Photovoltaics: Research and Applications ... Issue 1 p. 3-15. ACCELERATED PUBLICATION. Solar cell efficiency tables (version 57) Martin Green, Corresponding Author. Martin Green [email protected] [email protected] ... Department of Characterisation and Simulation/CalLab PV Cells, Fraunhofer Institute for Solar Energy ...

Progress of organic photovoltaics towards 20% efficiency ... to photochemical reactions occurring between the various layers of the cell 42. ... et al. Solar cell efficiency ...

Progress in Photovoltaics: Research and Applications. Volume 25, Issue 1 p. 3-13. Accelerated Publication. Solar cell efficiency tables (version 49) Correction(s) for this article, Martin A. Green, Corresponding Author. Martin A. Green [email protected] Australian Centre for Advanced Photovoltaics, University of New South Wales, Sydney, NSW ...

Fig. 1: Progress in solar cell energy conversion efficiency over the past 27 years compiled from the Solar Cell Efficiency Tables for various technologies (air mass 1.5 G, cell ...

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