

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 a...

Perovskite solar cells have been of great interest over the past decade, reaching a remarkable power conversion efficiency of 26.7%, which is comparable to best performing silicon devices. Moreover, the capability of perovskite solar cells to be solution-processed at low cost makes them an ideal candidate for Chemistry for a Sustainable World - ...

INTRODUCTION. The power conversion efficiency (PCE) of all-polymer solar cell (all-PSC) has been found dramatically affected by the use of additive(s), which assists the development of device performance when exceeding 19% [1] has been frequently confirmed by reports that naphthalene derivatives are one of the most effective types [2]. On the other hand, ...

"The first is a further increase in one of the most important entries, the efficiency of a silicon solar cell," Green told pv magazine. "Following on from the increase to 27.3% reported in Version 64 for a commercially-sized ...

Dye-sensitized solar cells (DSSCs), as emerging photovoltaic technology, have been thoroughly and extensively investigated in the last three decades. Since their first appearance in 1991, DSSCs have gained increasing attention and have been classified as feasible alternatives to conventional photovoltaic devices. 2020 Green Chemistry Hot Articles

Perovskite solar cells (PSCs) emerge as a leading next-generation photovoltaic (PV) technology, with power conversion efficiencies (PCEs) reaching 26.7% for single cells and 36.1% for hybrid tandem c...

The hydrogen fuel cell generators have also been optimised for the amount of energy used at the factory. A 760kW solar power generation system was installed on the factory roof last year--a proportion of this generation is what will be used in the new power system, also integrating newly installed battery storage.

From pv magazine Global. The international research group led by Professor Martin Green from the University of New South Wales (UNSW) in Australia has published Version 65 of the "solar cell efficiency tables" in ...

Davidson Kempner and NIC acquire renewables Project development business from Greencells Group Combined project portfolio of nearly 4 GW of utility-scale solar and battery ...

University of New South Wales - Cited by 129,304 - Photovoltaics - Semiconductors - Solar

Cells? - ?Conversion Efficiency? ... SR Wenham, MA Green, ME Watt, R Corkish, A Sproul. Routledge, 2013. 1143: 2013: Improving Solar Cell Efficiencies by the Up-Conversion of Sub-Band-Gap Light. T Trupke, Green ...

This paper presents recent advances in green-solvent-processable all-PSCs from the material design and morphological control perspective. And further reviews progress in using more environmentally friendly solvents (i.e., water or alcohol) to achieve genuinely sustainable and environmentally friendly manufacturing all-PSCs.

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