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Organic Photovoltaics

Completely revised, updated, and enlarged with much new and additional material, the second edition of this ready reference provides an up-to-date overview of this hot topic. This volume retains the proven structure of the successful first edition, divided into the three key aspects of successful device design: materials, device physics, and manufacturing technologies. The ...

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February 2014 Introduction I. MATERIALS FOR
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Hybrid Polymer/Nanocrystal Photovoltaic Devices

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Institut für Makromolekulare Chemie, Bergische
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Organic Photovoltaics. Materials, Device Physics, and Manufacturing Technologies. Brabec, Christoph / Scherf, Ullrich / Dyakonov, Vladimir (Editor) 1. Edition June 2008. XXII, 575 Pages, ...



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Hübler AC, Kempa H (2008) Flexo printing in organic electronics. In: Brabec CJ, Dyakonov V, Scherf U (eds) Organic photovoltaics. Wiley VCH, New York Google Scholar Santurri P, Chemsultants, Inc., (2007) Coating methods for producing polymer





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Vladimir Dyakonov is full professor of experimental physics at the University of Würzburg, Germany, and scientific director of the Bavarian Centre of Applied Energy Research ...



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Organic Photovoltaics

Organic photovoltaics (OPV) describes a group of technologies wherein the active layer of a solar cell is composed of hydrocarbon-based organic materials. OPV occupies a special niche among solar energy technologies in that it could potentially satisfy the growing



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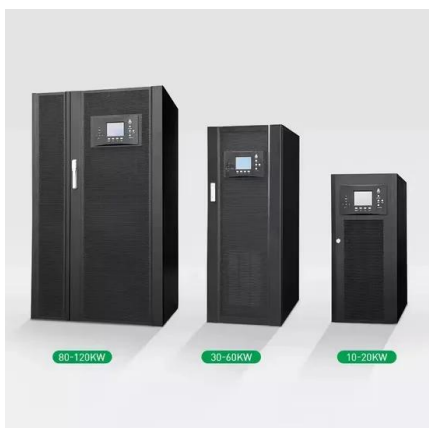


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[Organic photovoltaics: A chemical approach](#)

In this review, the fundamental contribution of chemistry to the multidisciplinary field of organic photovoltaics is presented in a systematic way through the wide variety of organic compounds



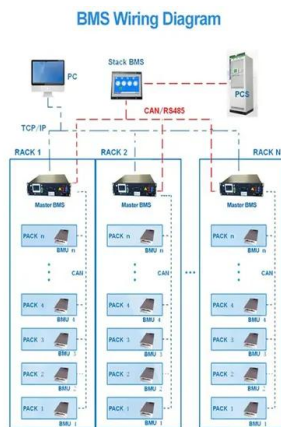
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Organic Photovoltaics Materials, Device Physics, and Manufacturing Technologies Edited by Christoph Brabec, Vladimir Dyakonov, and Ullrich Scherf Contents 1.6.3.1 PCBM Phase Separation and Assembly 201.6.3.2 Polymer Phase Separation and Assembly 211



Organic Photovoltaics : Concepts and Realization

Organic Photovoltaics also analyzes in detail the charge-transfer processes in the bulk-heterojunction devices corresponding to the relevant mechanism of carrier generation. Emphasized throughout is the concept of interpenetrating polymer-fullerene networks, due to their high potential for improving power efficiency.

Organic Photovoltaics

Organic Photovoltaics: Materials, Device Physics, and Manufacturing Technologies Christoph Brabec, Ullrich Scherf, Vladimir Dyakonov John Wiley & Sons, Sep 22, 2011 - Technology & Engineering - 597 pages



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Brabec, Christoph / Scherf, Ullrich / Dyakonov, Vladimir (Herausgeber) 1. Auflage Juni 2008 XXII, 575 Seiten, This book has a very good technical depth and, as such, will be worthwhile for researchers either entering the field of organic photovoltaics or for Both



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