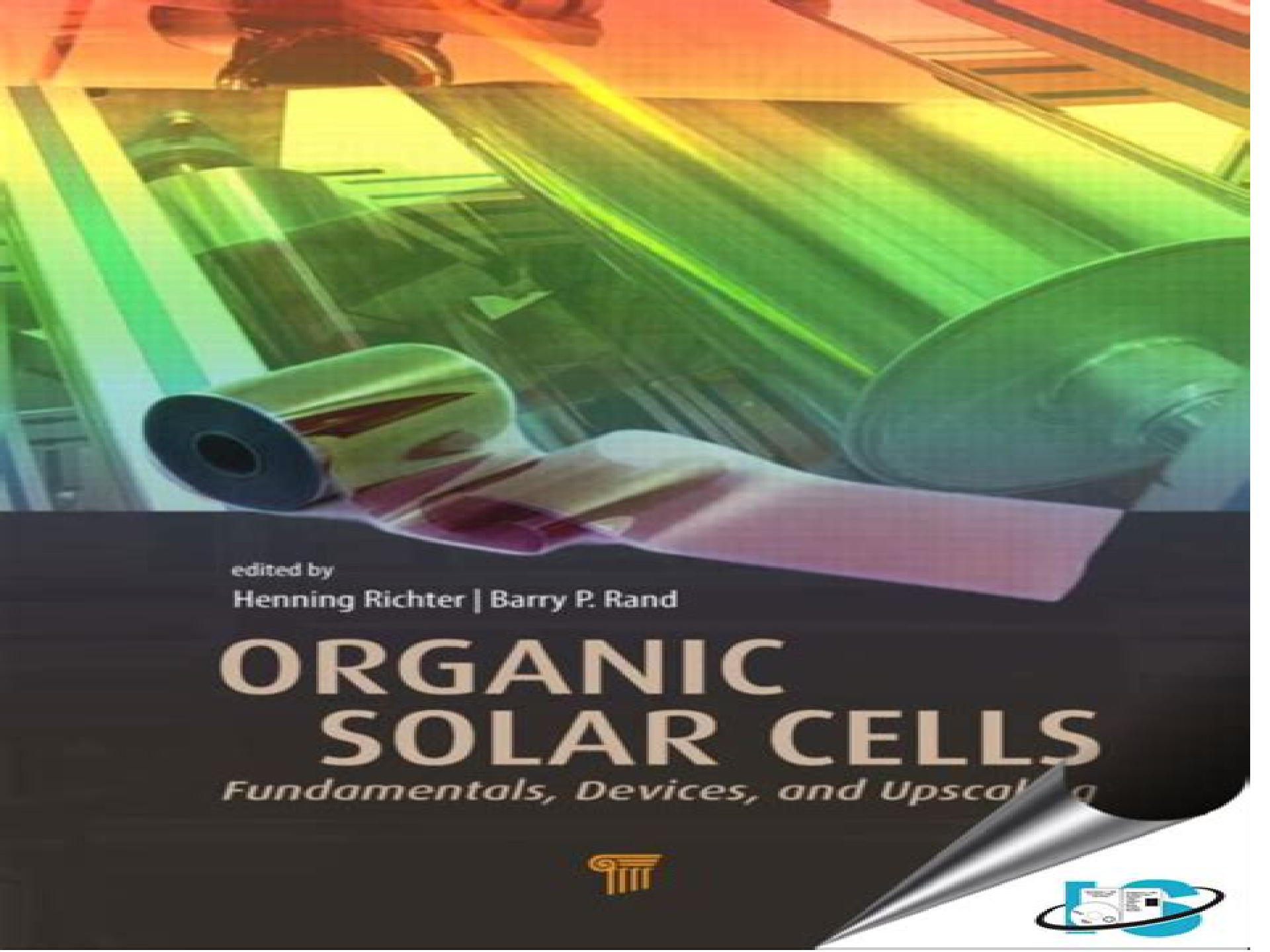




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ORGANIC SOLAR CELLS

Fundamentals, Devices, and Upscaling



Organic Solar Cells Fundamentals Devices And

**Md. Akhtaruzzaman, Vidhya
Selvanathan**



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Organic and Hybrid Solar Cells Lukas Schmidt-Mende, Jonas Weickert, 2016-05-24 With the increasing world energy demand there is a growing necessity for clean and renewable energy The sun being one of the most abundant potential sources accounts for less than 1% of the global energy supply The market for solar cells is one of the most strongly increasing markets even though the prize of conventional solar cells is still quite high New emerging technologies such as organic and hybrid solar cells have the potential to decrease the price of solar energy drastically This book offers an introduction to these new types of solar cells and discusses fabrication different architectures and their device physics on the bases of the author s teaching course on a master degree level A comparison with conventional solar cells will be given and the specialties of organic solar cells emphasized

Organic Solar Cells Wallace C.H. Choy, 2012-11-19 Organic solar cells have emerged as new promising photovoltaic devices due to their potential applications in large area printable and flexible solar panels Organic Solar Cells Materials and Device Physics offers an updated review on the topics covering the synthesis properties and applications of new materials for various critical roles in devices from electrodes interface and carrier transport materials to the active layer composed of donors and acceptors Addressing the important device physics issues of carrier and exciton dynamics and interface stability and novel light trapping structures the potential for hybrid organic solar cells to provide high efficiency solar cells is examined and discussed in detail Specific chapters covers key areas including Latest research and designs for highly effective polymer donors acceptors and interface materials Synthesis and application of highly transparent and conductive graphene Exciton and charge dynamics for in depth understanding of the mechanism underlying organic solar cells New potentials and emerging functionalities of plasmonic effects in OSCs Interface Degradation Mechanisms in organic photovoltaics improving the entire device lifetime Device architecture and operation mechanism of organic inorganic hybrid solar cells for next generation of high performance photovoltaics This reference can be practically and theoretically applied by senior undergraduates postgraduates engineers scientists researchers and project managers with some fundamental knowledge in organic and inorganic semiconductor materials or devices

Organic Electronics Stephen R. Forrest, 2020 This textbook provides a basic understanding of the principles of the field of organic electronics through to their applications in organic devices Useful for the student and practitioner it is both a teaching text

and a resource that is a jumping off point for learning working and innovating in this rapidly growing field Provided by publisher Organic Solar Cells Modest Voronov, 2017 The last two decades have seen unprecedented research progress made in the fabrication and testing of organic solar cell OSC devices due to among other things rapid growth of interest in the development of organic materials for photovoltaic applications the ease of processing and the prospect of achieving high power conversion efficiency PCE cost effectively The effects of impurity doping at the ppm level in photovoltaic organic semiconductors including i Seven nines purification of organic semiconductors ii pn control of single and co deposited organic semiconductors by impurity doping iii ionisation sensitisation of doping showing the doping efficiency of 100% iv ppm doping effects in the simplest n p homojunction organic photovoltaic cells and v the Hall effect of bulk doped organic single crystals are discussed in Chapter One In Chapter Two the fabrication and characterisation of perovskite type solar cells are reviewed and summarised such as $\text{CH}_3\text{NH}_3\text{PbI}_3$ HCNH_2 2PbI_3 and CsSnI_3 which are expected for solar cell materials Chapter Three proposes an experimental method to tailor SDE and optimise the power conversion efficiency PCE based on the electrical transport curve Chapter Four provides a brief history of organic photovoltaic cell devices factors limiting stability and power conversion efficiency fundamental parameters that have been reported to improve the general performance of the devices and recent developments in organic solar cell devices Organic Solar Cells Wolfgang Tress, 2014-11-22 This book covers in a textbook like fashion the basics of organic solar cells addressing the limits of photovoltaic energy conversion and giving a well illustrated introduction to molecular electronics with focus on the working principle and characterization of organic solar cells Further chapters based on the author's dissertation focus on the electrical processes in organic solar cells by presenting a detailed drift diffusion approach to describe exciton separation and charge carrier transport and extraction The results although elaborated on small molecule solar cells and with focus on the zinc phthalocyanine C60 material system are of general nature They propose and demonstrate experimental approaches for getting a deeper understanding of the dominating processes in amorphous thin film based solar cells in general The main focus is on the interpretation of the current voltage characteristics J V curve This very standard measurement technique for a solar cell reflects the electrical processes in the device Comparing experimental to simulation data the author discusses the reasons for S Shaped J V curves the role of charge carrier mobilities and energy barriers at interfaces the dominating recombination mechanisms the charge carrier generation profile and other efficiency limiting processes in organic solar cells The book concludes with an illustrative guideline on how to identify reasons for changes in the J V curve This book is a suitable introduction for students in engineering physics material science and chemistry starting in the field of organic or hybrid thin film photovoltaics It is just as valuable for professionals and experimentalists who analyze solar cell devices

Comprehensive Guide on Organic and Inorganic Solar Cells Md. Akhtaruzzaman, Vidhya Selvanathan, 2021-11-18
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authoritative resource on all types of inorganic organic and hybrid solar cells including their theoretical background and the practical knowledge required for fabrication With chapters rigorously dedicated to a particular type of solar cell each subchapter takes a detailed look at synthesis recipes deposition techniques materials properties and their influence on solar cell performance including advanced characterization methods with materials selection and experimental techniques By addressing the evolution of solar cell technologies second generation thin film photovoltaics organic solar cells and finally the latest hybrid organic inorganic approaches this book benefits students and researchers in solar cell technology to understand the similarities differences benefits and challenges of each device Introduces the basic concepts of different photovoltaic cells to audiences from a wide variety of academic backgrounds Consists of working principles of a particular category of solar technology followed by dissection of every component within the architecture Crucial experimental procedures for the fabrication of solar cell devices are introduced aiding picture practical application of the technology

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