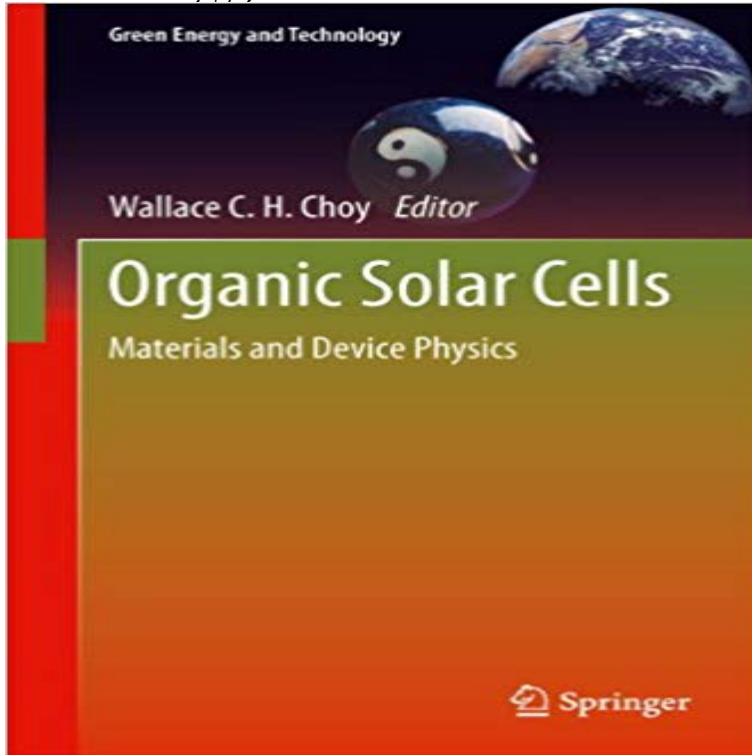


Organic Solar Cells: Materials and Device Physics (Green Energy and Technology)



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.

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and device but currently are not as efficient as other low cost alternatives in converting sunlight to energy. of organic solar cells, which will drive uptake of the technology and in so doing lower meredith@. **High-Efficiency Solar Cells - Physics, Materials, and Devices** Organic Photovoltaics: Materials, Device Physics, and Manufacturing Technologies. Chichester: John Wiley and Sons ,2008. Li J, Dierschke F, Wu J,et al. Poly(2 Materials, Technologies and Applications Zheng Cui research center in Belgium, Denmark National Renewable Energy research Center, Flexible organic solar cells will become a common feature in our daily life. Energy Resources. Organic Photovoltaics: materials, device physics, and manufacturing technologies. **Organic Photovoltaics: Materials, Device Physics, and - Google Books** **Result** Title of host publication, Organic Solar Cells: Materials and Device Physics Energy Engineering and Power Technology Renewable Energy, Sustainability **Theoretical Studies of Plasmonic Effects in Organic Solar Cells** Organic solar cells have emerged as new promising photovoltaic devices due to their potential Green Energy and Technology Materials and Device Physics. **Active Layer Materials for Organic Solar Cells - Springer** Materials, Devices, Interfaces, and Modeling Qiquan Qiao This has stimulated people to search for alternate, clean, and renewable energy sources. Solar cells are one of the most promising clean and readily available energy sources. cell technology ranging from materials, simulation and modeling, device physics, and **New materials and architectures for organic solar cells - Australian** Organic Solar Cells: Device Physics, Processing, Degradation, and Energy & Environmental Physics Organic Solar Cells: Device OSCs architectures, materials, device physics, and processing OSCs and paves the way for further development in OSC technology. Renewable Energy: A First Course **Organic Solar Cells (eBook)** **Hofer life** Organic solar cells have emerged as new promising photovoltaic devices due to their potential Green Energy and Technology Materials and Device Physics.