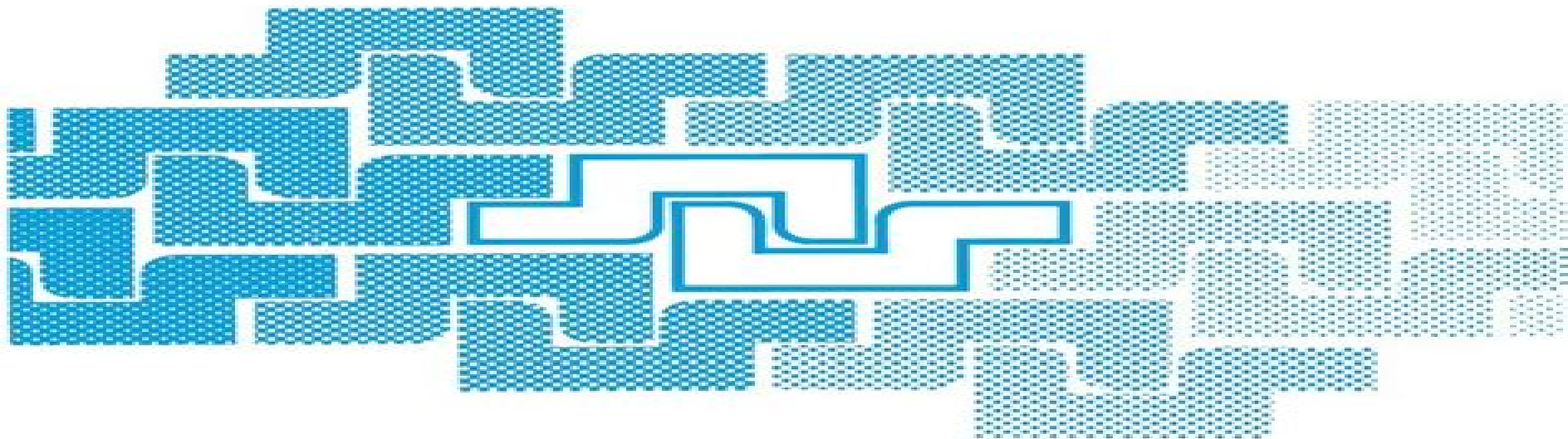




Photovoltaic and Photoactive Materials - Properties, Technology and Applications

Edited by

J.M. Marshall and D. Dimova-Malinovska

NATO Science Series

II. Mathematics, Physics and Chemistry – Vol. 80

Photovoltaic And Photoactive Materials And Ndash Properties

Fei Huang,Hin-Lap Yip,Yong Cao



Photovoltaic And Photoactive Materials And Ndash Properties:

Photovoltaic and Photoactive Materials Joseph M. Marshall, Doriana Dimova-Malinovska, 2012-12-06 The primary objective of this NATO Advanced Study Institute ASI was to present an up to date overview of various current areas of interest in the field of photovoltaic and related photoactive materials This is a wide ranging subject area of significant commercial and environmental interest and involves major contributions from the disciplines of physics chemistry materials electrical and instrumentation engineering commercial realisation etc Therefore we sought to adopt an inter disciplinary approach bringing together recognised experts in the various fields while retaining a level of treatment accessible to those active in specific individual areas of research and development The lecture programme commenced with overviews of the present relevance and historical development of the subject area plus an introduction to various underlying physical principles of importance to the materials and devices to be addressed in later lectures Building upon this the ASI then progressed to more detailed aspects of the subject area We were also fortunately able to obtain a contribution from Thierry Langlois d Estaintot of the European Commission Directorate describing present and future EC support for activities in this field In addition poster sessions were held throughout the meeting to allow participants to present and discuss their current activities These were supported by what proved to be very effective feedback sessions special thanks to Martin Stutzmann prior to which groups of participants enthusiastically met often in the bar to identify and agree topics of common interest

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Photovoltaic and Photoactive Materials K. A. Gesheva, Advanced Study Institute on Photovoltaic and Photoactive Materials - Properties, Technology and Application, 2003 *Photovoltaic Materials* Richard H Bube, 1998-05-30 Research and development of photovoltaic solar cells is playing an ever larger practical role in energy supply and ecological conservation all over the world Many materials science problems are encountered in understanding existing solar cells and the development of more efficient less costly and more stable cells This important and timely book provides a historical overview but concentrates primarily on exciting developments in the last decade It describes the properties of the materials that play an important role in photovoltaic applications the solar cell structures in which they are used and the experimental and theoretical developments that have led to the most promising contenders a **A Study of Photoactive Materials for Solution-Processed Thin-Film Solar Cells** Andrew Namespetra, 2015 **Polymer Photovoltaics** Fei Huang, Hin-Lap Yip, Yong Cao, 2015-09-08 Polymer solar cells have gained much attention as they offer a potentially economic and viable way of commercially manufacturing lightweight flexible and low cost photovoltaics With contributions from leading scientists Polymer Photovoltaics provides an international perspective on the latest research for this rapidly expanding field The book starts with an Introduction to polymer solar cells and covers several important topics that govern their photovoltaic

properties including the chemistry and the design of new light harvesting and interfacial materials and their structure property relationship the physics for photocurrent generation in the polymer solar cells new characterization tools to study morphology effect on the property of donor acceptor bulk heterojunctions new device concepts such as tandem cells and semi transparent cells and advanced roll to roll processes for large scale manufacturing of polymer solar cells Written by active researchers the book provides a comprehensive overview of the recent advancements in polymer solar cell technology for both researchers and students that are interested in this field *Organic Photovoltaics* Christoph Brabec,Ullrich Scherf,Vladimir Dyakonov,2011-09-22 Providing complementary viewpoints from academia as well as technology companies this book covers the three most important aspects of successful device design materials device physics and manufacturing technologies It also offers an insight into commercialization concerns such as packaging technologies system integration reel to reel large scale manufacturing issues and production costs With an introduction by Nobel Laureate Alan Heeger Solar Materials Science Lawrence Murr,2012-12-02 Solar Materials Science is a collection of lecture series on solar and other related energy technologies sponsored by the New Mexico Joint Center for Materials Science This book is divided into three sections encompassing 21 chapters that discuss the basic concepts of materials science their utilization in solar technology and examples of this utilization and the technology The introductory chapters present an overview of the solar materials science and technology Section I describes the optical properties microstructure and materials used in solar collectors and mirrors This section also examines metals emissivity spectral selectivity of composite for absorbers and corrosion of solar thermal energy materials Section II deals with the application of thermodynamic principles and reversible chemical reactions to solar storage systems This section also considers the materials problems encountered during the development of thermochemical concepts and schemes Section III focuses on the principles materials used and encountered problems in the development of photovoltaic systems The optimization of solar conversion devices is also covered in this section Undergraduate and graduate students in metallurgy metallurgical and materials engineering materials science electrical and mechanical engineering engineering science and solid state physics and chemistry will greatly benefit from this book

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