

ACS SYMPOSIUM SERIES 735

Semiconducting Polymers

Applications, Properties, and Synthesis



EDITED BY
Bing R. Hsieh and Yen Wei

Semiconducting Polymers

**Georges Hadziioannou, George G.
Malliaras**



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Yang,2012-10-05 The first part of Semiconducting Polymer Composites describes the principles and concepts of semiconducting polymer composites in general addressing electrical conductivity energy alignment at interfaces morphology energy transfer percolation theory and processing techniques In later chapters different types of polymer composites are discussed mixtures of semiconducting and insulating or semiconducting and semiconducting components respectively These composites are suitable for a variety of applications that are presented in detail including transistors and solar cells sensors and detectors diodes and lasers as well as anti corrosive and anti static surface coatings

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Georges Hadziioannou,George G. Malliaras,2007 The field of semiconducting polymers has attracted many researchers from a diversity of disciplines Printed circuitry flexible electronics and displays are already migrating from laboratory successes to commercial applications but even now fundamental knowledge is deficient concerning some of the basic phenomena that so markedly influence a device s usefulness and competitiveness This two volume handbook describes the various approaches to doped and undoped semiconducting polymers taken with the aim to provide vital understanding of how to control the properties of these fascinating organic materials Prominent researchers from the fields of synthetic chemistry physical chemistry engineering computational chemistry theoretical physics and applied physics cover all aspects from compounds to devices Since the first edition was published in 2000 significant findings and successes have been achieved in the field and especially handheld electronic gadgets have become billion dollar markets that promise a fertile application ground for flexible lighter and disposable alternatives to classic silicon circuitry The second edition brings readers up to date on cutting edge research in this field Publisher s description

Semiconducting Polymer Materials for Biosensing Applications

Kuan Yew Cheong,Mariana Amorim Fraga,Prashant Sonar,Rodrigo Pessoa,Jannu Casanova-Moreno,2024-01-20

Semiconducting Polymer Materials for Biosensing Applications provides a comprehensive look at semiconducting polymer

materials and their deposition characterization and use in biosensors The book begins with an introduction to the key materials and background of essential technologies Major types of monomer chemistries and fabrication of polymer materials are discussed with a focus on semiconducting films suitable for use in bio sensors A survey of the state of the art for organic thin film polymer semiconductor sensor based fabrication methods for materials and devices covers a wide range of chemical material physical and advanced fabrication techniques The book concludes with a chapter on theoretical insights for designing sensors bio sensors for medical food and environmental applications and the future of sensors This book is suitable for materials scientists and engineers and biomedical engineers in academia or industry Reviews the most promising semiconductor polymer materials such as conjugated polymers most frequently used in biosensing applications Provides an overview of the electrochemical techniques to process semiconductor polymer materials Discusses the use of semiconductor polymer based biosensors in biomedical environmental chemical and aerospace applications *Organic Semiconducting Polymers* J. E. Katon, 1968

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