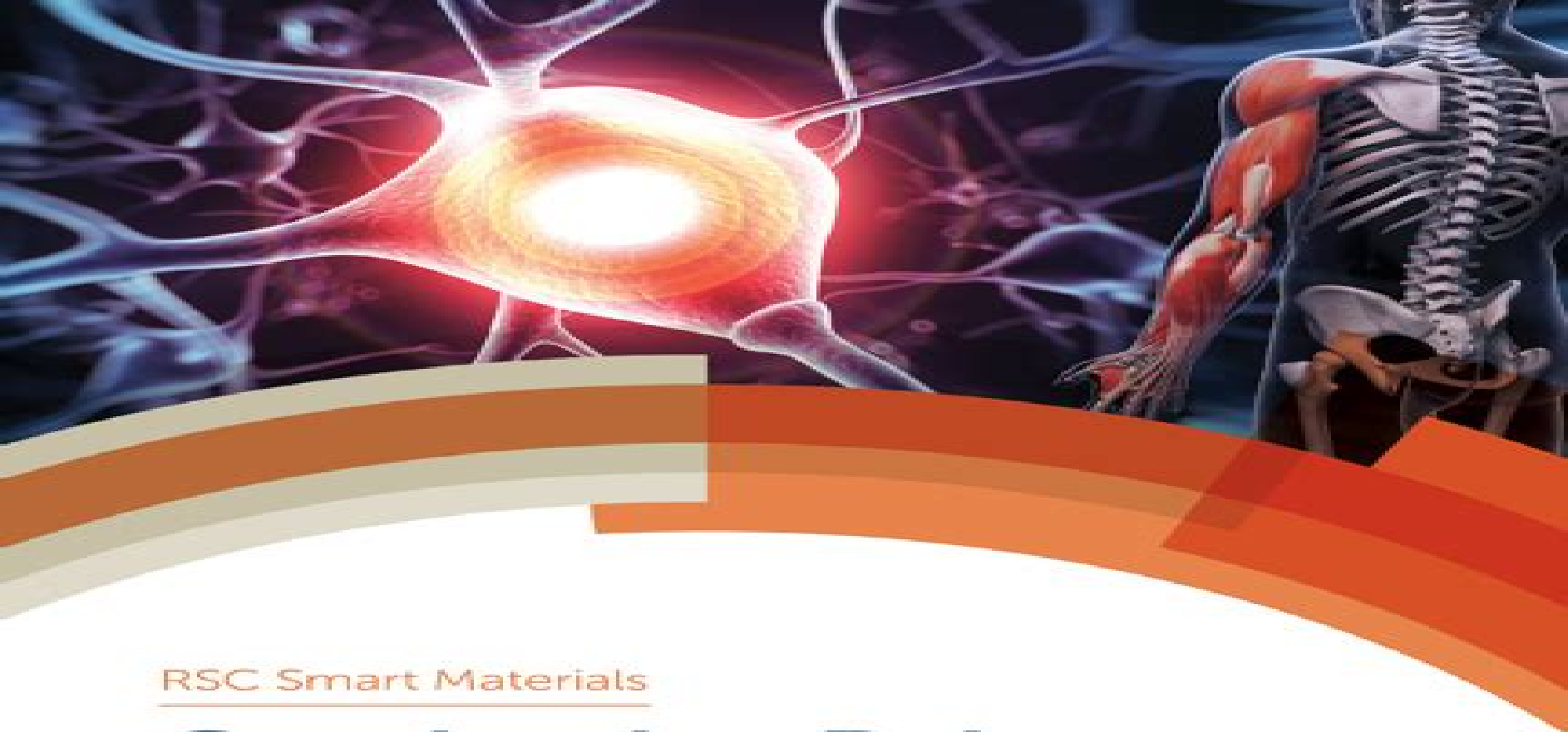




RSC Smart Materials

Conducting Polymers

Bioinspired Intelligent Materials and Devices

Toribio Fernandez Otero



Conducting Polymers Bioinspired Intelligent Materials

Toribio Fernández Otero



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Smart Materials for Tissue Engineering Qun Wang, 2016-12-13 In recent years there has been tremendous progress in the area of tissue engineering research. This book focusses on the fundamental principles underpinning these recent advances in the materials science developed for tissue engineering purposes. Smart materials for tissue engineering are produced by modifying the physicochemical and biological properties of the scaffolds with response to external stimuli to enhance the tissue regeneration. The functions of living cells can be regulated by smart materials which respond to changes in the surrounding microenvironment. This book comprehensively documents the recent advancements in smart materials for tissue engineering and will provide an essential text for those working in materials science and materials engineering in academia and industry. *Ambipolar Materials and Devices* Ye Zhou, Su-Ting

Han, 2020-09-15 This book highlights recent development of ambipolar materials involving materials design, fundamental principles, interface modifications, device structures, characteristics and promising applications.

Cucurbituril-based Functional Materials Dönüs Tuncel, 2019-08-28 Smart materials constructed through supramolecular assemblies have been receiving considerable attention because of their potential applications which include self-healing materials, energy storage, photonic devices, sensors and theranostics. Host-guest chemistry of various macrocyclic receptors with organic guests provides a unique way to control tailor-made nanoarchitectures for the formation of pre-designed functional materials. Cucurbituril-based Functional Materials provides an overview of this fascinating macrocycle, cucurbituril (CB) homologues and derivatives based supramolecular nanostructured materials. Chapters cover the synthesis, properties and application of CB-based smart materials and nanostructures. With contributions from key researchers, this book will be of interest to students and researchers working in materials science as well as those working on cucurbituril-based materials in organic and physical chemistry.

Reactive Inkjet Printing Patrick J. Smith, Aoife Morrin, 2017-11-27 A comprehensive overview of the technique and its use in fabricating functional materials for health and energy applications. *Ionic Liquid Devices* Ali

Eftekhari,2017-09-14 Ionic liquids are attractive because they offer versatility in the design of organic salts As ion rich media ionic liquids can control the systems properties by tuning the size charge and shape of the composing ions Whilst the focus has mainly been on the potential applications of ionic liquids as solvents they also provide innovative opportunities for designing new systems and devices Limitations from the high viscosity and expensive purification of the ionic liquids are also not a barrier for applications as devices Written by leading authors Ionic Liquid Devices introduces the innovative applications of ionic liquids Whilst the first chapters focus on their characterization which can be difficult in some instances the rest of the book demonstrates how ionic liquids can play substantial roles in quite different systems from sensors and actuators to biomedical applications The book provides a comprehensive resource aimed at researchers and students in materials science polymer science chemistry and physics interested in the materials and inspire the discovery of new applications of ionic liquids in smart devices

Polymerized Ionic Liquids Ali Eftekhari,2017-09-18 The applications of ionic liquids can be enormously expanded by arranging the organic ions in the form of a polymer architecture Polymerized ionic liquids PILs also known as poly ionic liquid s or polymeric ionic liquids provide almost all features of ionic polymers plus a rare versatility in design The mechanical properties of the solid or solid like polymers can also be controlled by external stimuli the basis for designing smart materials Known for over four decades PILs are a member of the ionic polymers family Although the previous forms of ionic polymers have a partial ionicity PILs are entirely composed of ions Therefore they offer a better flexibility for designing a responsive architecture as smart materials Despite the terminology PILs can be synthesized from solid organic ionic salts since the monomer liquidity is not a requirement for the polymerization process Ionicity can also be induced to a neutral polymer by post polymerization treatments This is indeed an emerging field whose capabilities have been somehow overshadowed by the popularity of ionic liquids However recent reports in the literature have shown impressive potentials for the future Written by leading authors the present book provides a comprehensive overview of this exciting area discussing various aspects of PILs and their applications as smart materials Owing to the novelty of this area of research the book will appeal to a broad readership including students and researchers from materials science polymer science chemistry and physics

Magnetic Nanomaterials Stefan H Bossmann,Hongwang Wang,2017-05-25 Magnetic nanomaterials have undergone a significant evolution during the past decade with supramolecular nanoparticle organization reaching unprecedented levels of complexity and the materials providing new approaches to treating cancer Magnetic Nanomaterials will provide a comprehensive overview of the latest research in the area of magnetic nanoparticles and their broad applications in synthesis catalysis and theranostics The book starts with an introduction to magnetism in nanomaterials and magnetic nanoparticle design followed by individual chapters which focus on specific uses Applications covered include drug delivery theranostic agents for cancer treatment as well as catalysis biomass conversion and catalytic enhancement of NMR sensitivity The reader will have the opportunity to learn about the frontier of

magnetic nanotechnology from scientists that have shaped this unique and highly collaborative field of research Written and edited by experts working within the field across the world this book will appeal to students and researched interested in nanotechnology engineering and physical sciences

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