

Biointerfaces Where Material Meets Biology Rsc Smart Materials

Smart Materials for Tissue Engineering Qun Wang 2017 Comprehensively covering the applications of smart materials for clinical applications, this book will be a valuable resource to biochemists, materials scientists and biomedical engineers working in industry and academia.

Photocured Materials Atul Tiwari 2014-11-26 The materials technologies based on photocuring are gaining momentum, and this will be the first book to provide an in-depth focus on the subject.

Smart Materials for Advanced Environmental Applications Peng Wang 2016 This book is dedicated to the innovative and emerging applications of designed functional surfaces to solving environmental challenges.

Self-Cleaning Coatings Junhui He 2016-09-09 Provides an overview of the uses of self-cleaning coatings for materials and polymer scientists working in industry and academia.

Bioactive Glasses Aldo R. Boccaccini 2016-12-01 The field of bioactive glasses has been expanding continuously over recent years. This book aims to give the material's scientist an up-to-date reference and guide for education, studies and research.

Functional Metallosupramolecular Materials John Hardy 2015-07-17 There is great interest in metallosupramolecular materials because of their use in magnetic, photonic and electronic materials. *Functional Metallosupramolecular Materials* focuses on the applications of these materials covering the chemistry underlying the synthesis of a variety of ligands to coordinate various metal ions and the generation of 2D and 3D materials based on these constructs. The book starts by looking at different metallosupramolecular systems including naturally occurring functional metallosupramolecular materials; DNA-based metallosupramolecular materials; metallopolymers; metallo gels as well as functional materials based on MOFs. Subsequent chapters then systematically cover the different applications such as molecular computation, spin-crossover, light harvesting and as photocatalysts for the production of solar fuels. The book provides an overview of functional metallosupramolecular materials that will be of interest to graduate students, academics and industrial chemists interested in supramolecular chemistry, materials science and the materials applications. Priced at £159.00, US\$260.00, €198.75

Conducting Polymers Toribio Fernández Otero 2016

Chemoresponsive Materials Hans-Jörg Schneider 2015-07-13 Smart materials stimulated by chemical or biological signals are of interest for their many applications including drug delivery, as well as in new sensors and actuators for environmental monitoring, process and food control, and medicine. In contrast to other books on responsive materials, this volume concentrates on materials which are stimulated by chemical or biological signals. *Chemoresponsive Materials* introduces the area with chapters covering different responsive material systems including hydrogels, organogels, membranes, thin layers, polymer brushes, chemomechanical and imprinted polymers, nanomaterials, silica particles, as well as carbohydrate- and bio-based systems. Many promising applications are highlighted, with an emphasis on drug delivery, sensors and actuators. With contributions from internationally known experts, the book will appeal to graduate students and researchers in academia, healthcare and industry interested in functional materials and their applications.

Smart Materials for Tissue Engineering Qun Wang 2017-05-03 In the last couple of decades, research in the area of tissue engineering has witnessed tremendous progress. The focus has been on replacing or facilitating the regeneration of damaged or diseased cell, tissue or organs by applying a biomaterial support system, and a combination of cells and bioactive molecules. In addition new smart materials have been developed which provide opportunities to fabricate, characterize and utilize materials systematically to control cell behaviours and tissue formation by biomimetic topography that closely replicate the natural extracellular matrix. Following on from *Smart Materials for Tissue Engineering: Fundamental Principles*, this book comprehensively covers the different uses of smart materials in tissues engineering, providing a valuable resource for biochemists, materials scientists and biomedical engineers working in industry and

academia.

Biointerfaces Dietmar Hutmacher 2014-10-27 In order to design and develop new biomaterials it is essential to understand the biointerface, the interconnection between a synthetic or natural material and tissue, microorganism, cell, virus or biomolecule. *Biointerfaces: Where Material Meets Biology* provides an up to date overview of the knowledge and methods used to control living organism responses to implantable devices. The book starts with an introduction to the biointerface - past, present and the future perspectives and covers the key areas of biomolecular interface for cell modulation, topographical biointerface, mechano structural biointerafce, chemo-structural biointerfaces and interface that control bacteria responses. By combining the cellular, antimicrobial, antibacterial and therapeutic aspects of the interface with the methodology of fabrication and testing of the synthetic biomaterials used in a variety of medical applications the text provides a handbook for researchers. Edited by leading researchers, the book integrates the understanding of cell, microorganism and biomolecule interactions with surfaces and the methods used for assessment which will appeal to materials scientists, chemists, biotechnologists, (molecular-) biologists, biomedical engineers interested in the fundamentals and applications of biomaterials and biointerfaces.

Functional Polymer Composites with Nanoclays Yuri Lvov 2016-11-29 Polymer-clay nanocomposites have flame-retardant, antimicrobial, anticorrosion and self-healing properties, they are biocompatible and environmentally benign. Edited by pioneers in the field, this book will explain the great potential of these materials and will bring together the combined physico-chemical, materials science and biological expertise to introduce the reader to the vibrant field of nanoclay materials. This book will provide an essential text for materials and polymers scientists in industry and academia.

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