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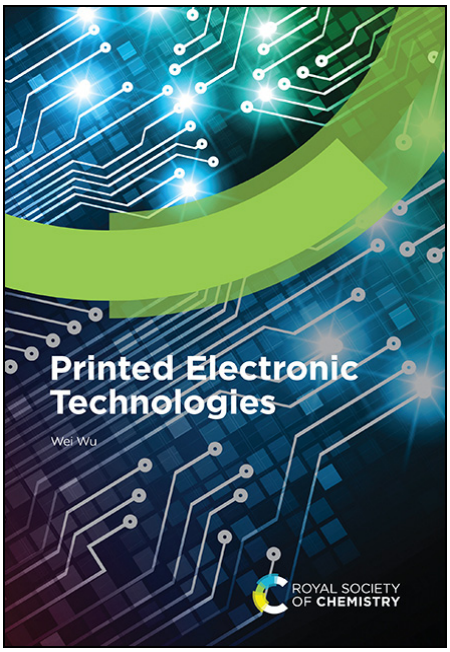

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BIC: TGM, TJFD
THEMA: 4TC, TGM, TJFD
BISAC: TEC008000, TEC021020

Printed Electronic Technologies

Wei Wu Wuhan University, China

Synopsis

Modern printing technology has paved the way for the fabrication of thin, inexpensive electronics, with applications including wearable devices, smart packaging, healthcare, and in the automotive industry. This book describes the key technologies for printed electronics, including explanations of the materials, mechanisms, printing methods and processes, along with examples of printed devices and their applications. This title will be essential reading for students on courses across materials science, electronic science, manufacturing and engineering, as well as those with an interest in printed electronics.

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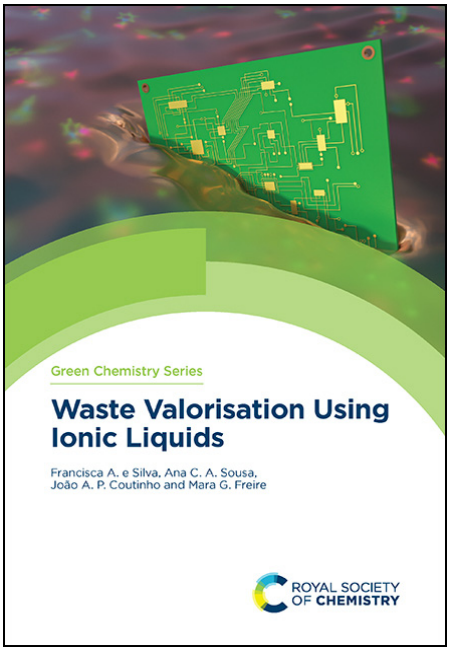

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Series: Green Chemistry Series
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Size: 234 x 156 (Royal 8vo) mm
Pages: 191
BIC: RNH, RNU, TDC
THEMA: RNH, RNU, TDC
BISAC: SCI013060, TEC010020

Waste Valorisation Using Ionic Liquids

Francisca e Silva University of Aveiro, Portugal
Ana Sousa University of Évora, Portugal
Mara Freire University of Aveiro, Portugal
João Coutinho University of Aveiro, Portugal

Synopsis

Modern societies produce high loads of waste, which may cause environmental contamination, valuable resources loss and disposal problems. In the circular economy concept nothing would ever become waste and everything can be re-usable or recoverable. Ionic liquids provide a potential route for valorisation of different waste types. Covering different types of waste, including municipal, industrial, electronic, and medical waste, this book aims to deliver a comprehensive perspective on the application and commercialization of ionic liquids towards waste valorisation.

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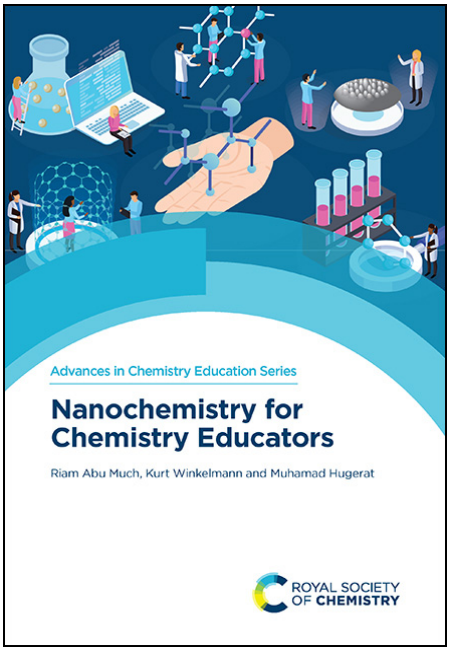

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Series: Advances in Chemistry Education Series
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Pages: 172
BIC: JNA, JNT, JNU, PN
THEMA: JNA, JNT, JNU, PN
BISAC: EDU037000, EDU046000, SCI013000

Nanochemistry for Chemistry Educators

Riam Abu Much The Academic Arab College for Education, Israel
Kurt Winkelmann Florida Institute of Technology, USA
Muhamad Hugerat The Academic Arab College for Education, Israel

Synopsis

For the first time, this book sets out ways to teach the science of nanochemistry at a level suitable for pre-service and in-service teachers in middle and secondary school. The authors draw upon peer-reviewed science education literature for experiments, activities, educational research, and methods of teaching the subject.

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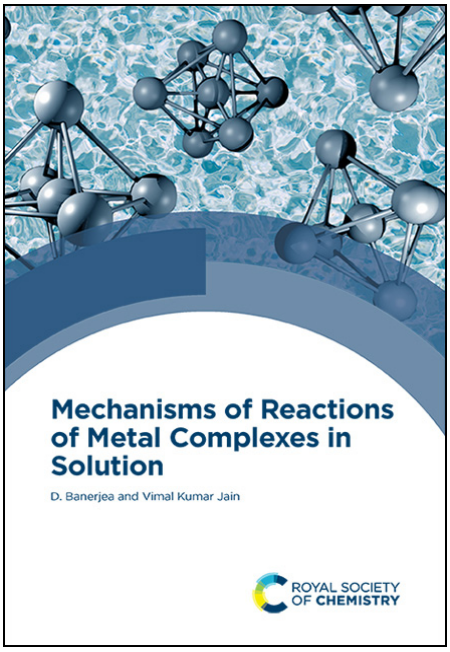

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Pages: 518
BIC: PNK, PNR
THEMA: PNK, PNR
BISAC: SCI013030, SCI013050

Mechanisms of Reactions of Metal Complexes in Solution

Debabrata Banerjea University of Kolkata, India
M K Bharty Banaras Hindu University, India

Synopsis

The study of the mechanism of metal complex reactions is a thriving research field in inorganic chemistry. This book outlines the key principles of determining kinetics and mechanisms of metal complex reactions in solution as well as techniques and challenges for studying reaction rates. Proceeding logically through the following chapters, the principles are then extensively used in a comprehensive account of different reactions of metal complexes from ligand replacement reactions and isomerisation to electron transfer and photochemical reactions. This book is an ideal single resource on the principles and most up to date research in the area for postgraduates and researchers in inorganic chemistry, coordination chemistry, catalysis, supramolecular chemistry and related aspects of biochemistry.

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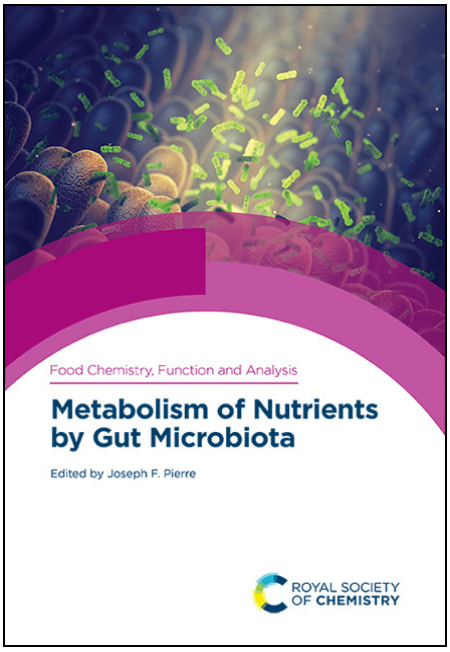

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Price: £123.00 | $170.00
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THEMA: MBNH3, PNF, PSB
BISAC: MED060000, SCI007000, SCI013010

Metabolism of Nutrients by Gut Microbiota

Joseph F Pierre University of Wisconsin-Madison, USA

Synopsis

This book highlights emerging functional and mechanistic research findings that illustrate the inner workings of the dietary-microbial-host relationship to metabolic regulation. Discussing how diet regulates microbial function with metabolic implications for human health, the chapters are designed to cover the broad concepts of microbial-host interactions under the dietary influences of specific macronutrients, micronutrients, small molecule generation, bile acid circulation, with inclusion of later clinical chapters encompassing topics like bariatric surgery and current understanding of probiotics, prebiotics, and synbiotics. In a nutshell, different micronutrients affect the gut and are absorbed in different ways, a better understanding of this relationship is one of the most exciting parts of functional food research.

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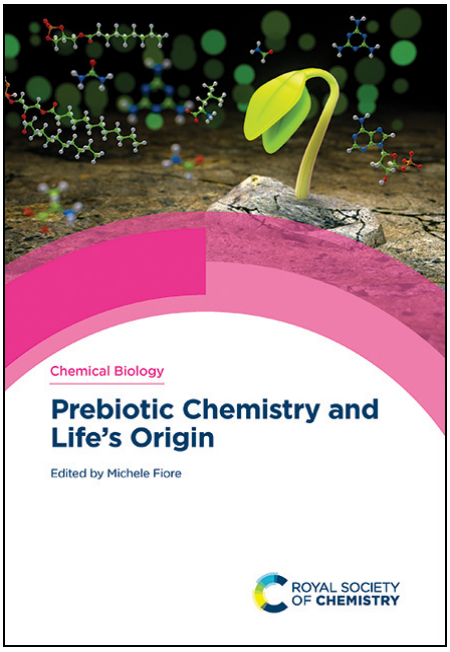

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THEMA: PSAF, PSAJ, PSB, PSC, PSE
BISAC: SCI007000, SCI019000, SCI027000, SCI072000

Prebiotic Chemistry and Life's Origin

Michele Fiore University Claude Bernard Lyon 1, France

Synopsis

How life originated from an inanimate mixture of organic and inorganic compounds on the primordial Earth remains one of the great unknowns in science. This origin of life, or abiogenesis, continues to be examined theoretically and experimentally in the context of prebiotic conditions. This book provides a broad but in-depth analysis of the latest discoveries in prebiotic chemistry from the microscopic to the macroscopic scale, utilising experimental insight to provide a bottom up approach to provide a plausible explanation as to how life arose. With contributions from global leaders, this book is a reference for postgraduate students and a single source of comprehensive information on the latest technical and theoretical advancements for researchers.

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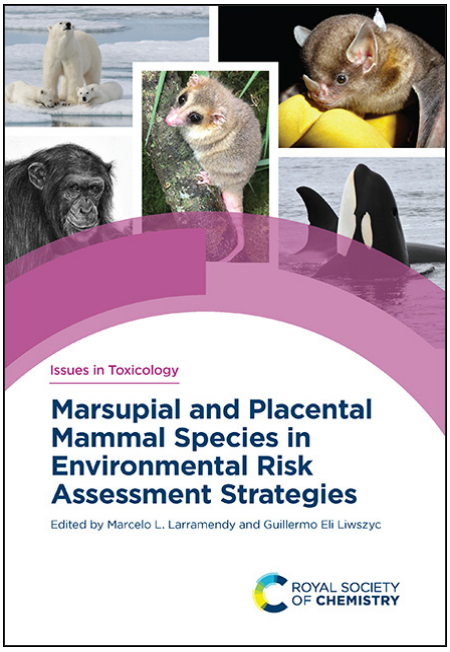

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THEMA: PSAF, PSAK, PSB, PSVM1
BISAC: SCI013090, SCI020000, SCI029000, SCI070030

Marsupial and Placental Mammal Species in Environmental Risk Assessment Strategies

Marcelo L Larramendy National University of La Plata, Argentina
Guillermo Liwszyc University of Helsinki, Finland

Synopsis

With the expansion of human settlements and the environmental changes brought on by human activity and pollutants, toxicology and risk assessment of mammal species is becoming increasingly of interest to toxicologists involved in environmental research. This book focuses specifically on environmental risk assessment in marsupial and placental mammals. This book will be an ideal companion to toxicologists and ecologists interested in risk assessment in the environments of mammals. The book will be of interest to those with an interest in the impact introduced by human activity and workers in conservation biology, biological invasion, biocontrol and habitat management.

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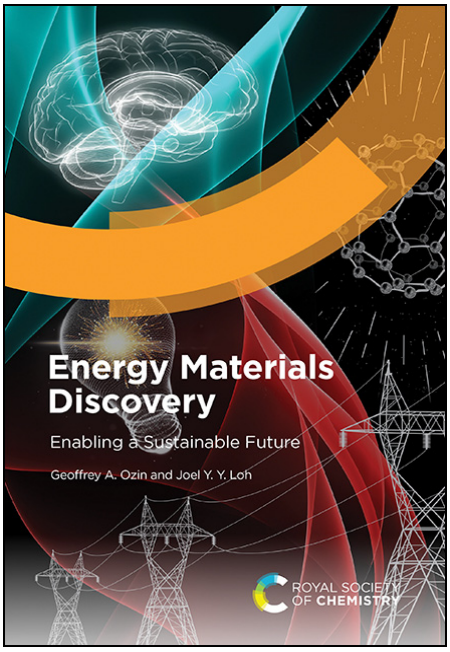

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THEMA: 4TC, PHF, RNU, THV
BISAC: SCI024000, TEC010000, TEC021000

Energy Materials Discovery
Enabling a Sustainable Future

Geoffrey A Ozin University of Toronto, Canada
Joel Y Y Loh University of Toronto, Canada

Synopsis

Documenting, through the eyes of a practicing materials chemist, an epic journey to make the energy transition from non-renewable to renewable forms possible, this unique book will crosscut the disciplines of chemistry, physics, materials science and engineering. It is mainly about a bottom-up synthetic chemistry approach to energy materials rather than a top-down engineering physics methodology. A distinctive feature of the book is the inclusion of the use of artificial intelligence, machine learning and robotic materials discovery. Helping many students and researchers, funding agencies and industries, media and investors to understand the story of energy materials, the book will be a unique addition to the literature.

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