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Complete Science Communication
A Guide to Connecting with Scientists, Journalists and the Public

Ryan C Fortenberry  Georgia Southern University, USA

Synopsis
Written as a textbook to support advanced level undergraduate and postgraduate courses, the book brings together all aspects of science communication. Focus is on the four key areas of writing for non-technical audiences and science journalism; writing for technical audiences and peer-reviewed journals; public speaking of science; and public relations. This text will provide science students with an appreciative understanding of accepted human communication theories and practices. Potential assignments are also provided at the end of each chapter as additional resources.

Brief Contents
- The Art and Motivation of Science Communication
- Writing Science through the Tenets of Journalism
- Writing Technical Science Like a Journalist
- Speaking (not) Like a Scientist
- The More Common Presentation, the Poster
- Public Relations and Marketing, the Synthesis of Science Communication

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Computational Materials Discovery

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Synopsis
Until a few years ago, new materials could only be discovered experimentally. Now the situation is dramatically different with advances in computational techniques. This is the first book to provide a systematic review of computational materials discovery, covering different methods and materials discovery for specific classes of materials including low-dimensional materials. The book is a convenient introduction for young researchers and industrial scientists to the topic of computational materials design.

Brief Contents
- Section I: Methods for Materials Discovery
  - Crystal Structure Prediction from Evolutionary Approaches
  - Data Mining Methods for Material Investigations
  - Applications of Machine Learning for Representing Interatomic Interactions
  - Embedding Methods in Materials Science
- Section II: Functional Materials
  - Computational Design of Photovoltaic Materials
  - Computational Approaches for Investigation and Design of Superconducting Materials

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Photochemistry

Volume 46

Angelo Albini University of Pavia, Italy
Stefano Protti University of Pavia, Italy

Synopsis

Reviewing photo-induced processes that have relevance to a wide ranging number of academic and commercial disciplines and interests, this volume reflects the current interests in chemistry, physics, biology and technology. Essential reading for postgraduates, academics and industrialists working in the field of photochemistry, enabling them to keep on top of the literature.

Brief Contents

  Introduction and Review of the Year 2017
- Part 2. Highlights: Two-photon Responsive Chromophore for Uncaging Reactions

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Metallomacrocycles
From Structures to Applications
Hai-Bo Yang  East China Normal University, China

Synopsis
Metallomacrocycles are organic macrocycles with metal moieties that endow interesting properties and allow diverse applications, such as in sensing, drug delivery and catalysis. This book will provide the background, design and construction, higher order systems, and applications of metallomacrocycles. This will be primarily useful for postgraduate students and researchers, and particularly to those interested in coordination driven self-assembly, supramolecular chemistry and nanoscience.

Brief Contents
- Historical Background of Metallomacrocycles
- Design Principles of Metallomacrocycles
- Self-organization in Coordination-driven Self-assembled Macrocyes
- Chiral Metallomacrocycles
- Metallomacrocycle-based Mechanically Interlocked Architectures
- Supramolecular Transformations of Metallomacrocycles
- Coordination-driven Self-assembly of Functionalized Metallomacrocycles
- Higher-order Supramolecular Systems Derived from Metallomacrocycles
- Applications of Metallomacrocycles
Post-combustion Carbon Dioxide Capture Materials

Qiang Wang  Beijing Forestry University, China

Synopsis
The book covers the use of inorganic materials for post-combustion carbon dioxide capture materials including carbon-based adsorbents; zeolite- and silica-based adsorbents; metal–organic framework (MOF)-based adsorbents; alkali-metal-carbonate and ionic-liquid-based adsorbents. The emphasis is on the design, synthesis, characterization, performance, mechanism, and application of these different inorganic materials.

Brief Contents
- Carbon-based CO₂ Adsorbents
- Zeolite and Silica-based CO₂ Adsorbents
- Metal Organic Framework (MOF) based CO₂ adsorbents
- Alkali Metal Carbonate-based CO₂ Adsorbents
- Application Status of Post-combustion CO₂ Capture Materials
Rubber Recycling

Challenges and Developments

Jin Kuk Kim  Gyeongsang National University, South Korea
Prosenjit Saha  Indian Institute of Engineering Science and Technology, Shibpur, India
Sabu Thomas  Mahatma Gandhi University, India
Józef T Haponiuk  Gdansk University of Technology, Poland

Synopsis

This book presents an up-to-date overview of the fundamental and applied aspects of renewability and recyclability of rubber materials, emphasizing existing recycling technologies with significant potential for future applications along with a detailed outline of new technology based processing of rubber to reuse and recycle. This book will be of interest to researchers, in both academia and industry, and postgraduate students working in polymer chemistry, materials processing, materials science and engineering.

Brief Contents

- Grinding of Waste Rubber
- Surface Treatment of Waste Rubber
- Thermoplastic Vulcanizates (TPVs) filled with GTR
- Foaming of Composites with Waste Rubber
- Recycling of tire rubber and their re-usability
- Testing and Industrial Characterization Techniques for Waste Rubber
- High Performance Flooring Materials from Recycled Rubber
- Recycling of individual waste rubbers
- Recycling of latex waste and latex products
- Recycling of Tires
Field-cycling NMR Relaxometry

Instrumentation, Model Theories and Applications

Rainer Kimmich University of Ulm, Germany

Synopsis

Field-cycling NMR relaxometry is evolving into a methodology of widespread interest with recent technological developments resulting in powerful and versatile commercial instruments. Many materials can be studied by this tool. This book will summarise the expertise of leading scientists in the area and the Editor is well placed, after four decades of working in this field, to edit a book on this area being familiar with both the contributors work and them personally. Newcomers to the field will find this book invaluable for successful use of the technique and excellent background reading. Researchers in academic and industrial settings interested in molecular dynamics and magnetic resonance are finding it an invaluable addition to the literature.

Brief Contents

- Essentials of the theory of spin relaxation as needed for field-cycling NMR
- Specific aspects of the design of field-cycling devices
- New trends in field-cycling NMR technology
- Relaxometry at very low frequencies by rotating-frame techniques for complementing the frequency domain explored by field cycling
- Signal enhancement for FFC relaxometry via Dynamic Nuclear Polarization: hardware and methods
- Broadband FC Relaxometer: Requirements, Instrumentation and Verification
- Application of field-cycling 1H NMR relaxometry for studying translational diffusion in liquids and polymers

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