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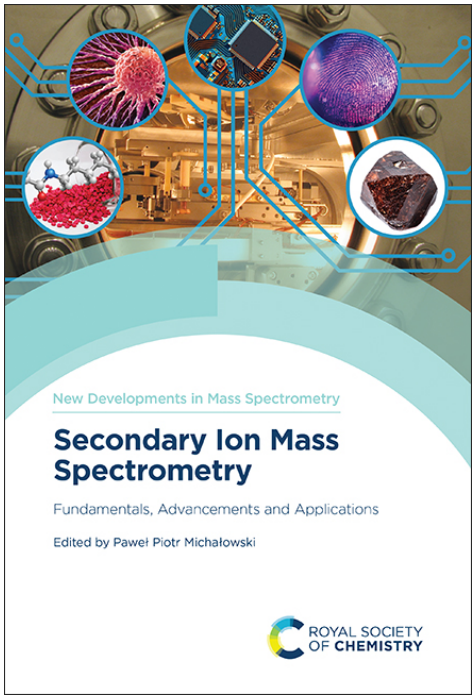

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BISAC:	SCI013010, SCI028000, SCI076000, SCI093000, TEC021000
Series:	New Developments in Mass Spectrometry Volume 16

Secondary Ion Mass Spectrometry

Fundamentals, Advancements and Applications

Paweł Piotr Michałowski Institute of Microelectronics and Photonics, Poland

Synopsis

Secondary ion mass spectrometry (SIMS) is a technique used to analyse the composition of solid surfaces and thin films by sputtering the surface of the specimen and collecting and analysing ejected secondary ions. This book briefly introduces the fundamentals of the SIMS technique and discusses in detail recent advancements and applications in various branches of science. From an extensive literature review, it provides a good overview of how to reproduce the most prominent experiments and what instruments are required or suited to the analysis. Appealing to graduates or postgraduates who want an overview of the field and how to use this technique, researchers new to this field will find innovative solutions and how to achieve them detailed herein.

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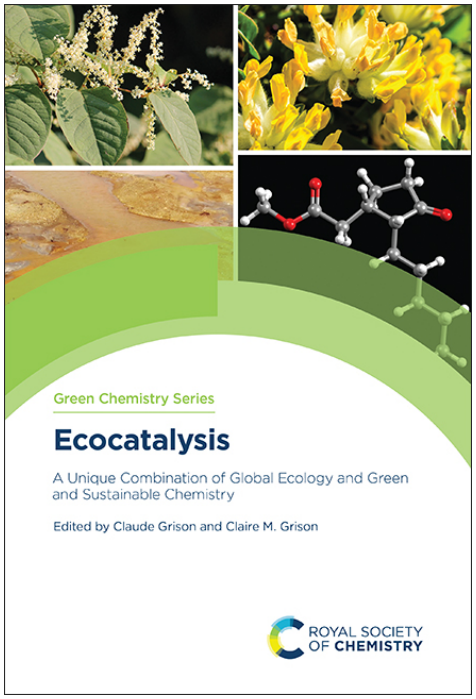

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Size:	234 x 156 (Royal 8vo) mm
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BIC:	TQ, PNRD, RNC, RNU
THEMA:	PNC, PNRD, RNC, RNU
BISAC:	SCI013080, SCI013050, TEC010010, SCI020000
Series:	Green Chemistry Series Volume 87

Ecocatalysis

A Unique Combination of Global Ecology and Green and Sustainable Chemistry

Claude Grison CNRS, Montpelier, France
Claire M Grison

Synopsis

Ecocatalysis brings together chemistry and ecology to enable sound ecosystem management and restoration approaches of degraded land and aquatic ecosystems. Written by the pioneers of ecocatalysis, this book describes an innovative approach to ecological recycling that turns plant wastes of plants used in remediation and ecological restoration into catalysts useful for the synthesis of complex biomolecules. It is an interesting read for those excited by green chemistry, industrial chemistry, applied ecology and sustainable development.

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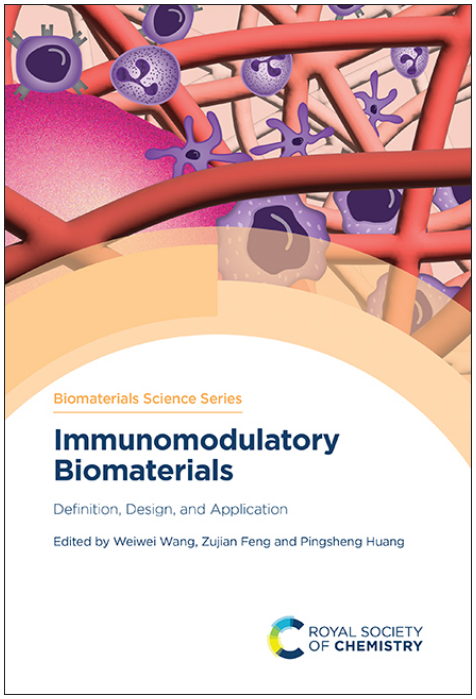

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BIC:	TGM
THEMA:	MKH, MBG, TGML
BISAC:	MED003040
Series:	Biomaterials Science Series Volume 21

Immunomodulatory Biomaterials

Definition, Design, and Application

Weiwei Wang Chinese Academy of Medical Sciences & Peking Union Medical College, China
Zujian Feng Chinese Academy of Medical Sciences & Peking Union Medical College, China
Pingsheng Huang Chinese Academy of Medical Sciences & Peking Union Medical College, China

Synopsis

The ability to modulate the body's immune system can greatly assist the treatment of diseases and repair of injured tissues. Immunomodulatory biomaterials can promote adaptive immunity, without the need for drugs, cytokines or cell therapies.

The book includes an overview of the immune system, the immune response biomaterials may create, and various design strategies across a range of biomedical contexts. The book concludes with an outlook on the future of this topic and how it will translate to the clinic.

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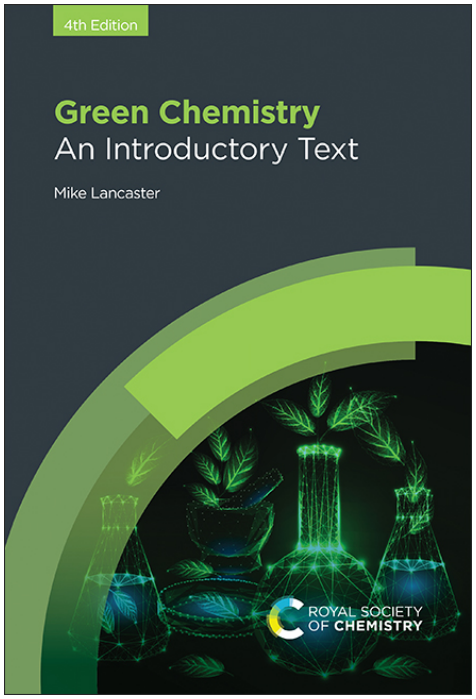

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BISAC:	SCI013000, SCI003000, TEC010000, SCI026000
Prev. Edition ISBN	9781782622949

Green Chemistry

An Introductory Text

Mike Lancaster Chemical Industries Association, UK

Synopsis

Updated throughout, the fourth edition of this fascinating textbook is suitable for undergraduate and postgraduate courses covering green chemistry. It still focuses on the core principles of green chemistry but has a new emphasis on how green chemistry can help solve many of the environmental problems facing society. In particular there is a new chapter on energy decarbonisation and climate change, bringing together sustainable energy solutions, possibilities for a fossil free chemical industry and showing how green chemistry can help other sectors such as transport and energy generation achieve net zero. There is also discussion of the UN Sustainability Goals and how green chemistry is helping achieve these goals. Green chemistry has moved on since the first edition of this book, whilst still covering the basics this latest edition also looks at the practical solutions provided.

Key Features and Highlights

- The 4th Edition of Green Chemistry still focuses on the core principles of green chemistry but has a new emphasis on how green chemistry can help solve many of the environmental problems facing society.
- There is a new chapter on energy decarbonisation and climate change, bringing together sustainable energy solutions, possibilities for a fossil free chemical industry and showing how green chemistry can help other sectors such as transport and energy generation achieve net zero.
- Includes a discussion of the UN Sustainability Goals and how green chemistry is helping achieve these goals.
- Suitable for undergraduates and post graduates as well as industrialists looking for new ways of thinking how more sustainable products and processes may be developed.

Brief Contents

- Principles and Concepts of Green Chemistry
- Waste: Production, Problems and Prevention
- Measuring and Controlling Environmental Performance
- Catalysis and Green Chemistry
- Organic Solvents: Environmentally Benign Solutions
- Renewable Resources
- Emerging Greener Technologies and Alternative Energy Sources
- Designing Greener Processes
- Energy, Decarbonisation and Climate Change
- 10 Industrial Case Studies
- The Future is Green: An Integrated Approach to a Greener Chemical Industry

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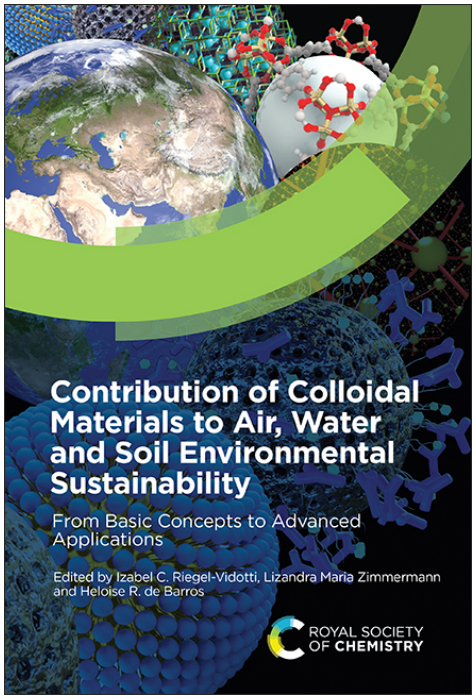

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BISAC:	SCI077000, SCI013050, TEC010000

Contribution of Colloidal Materials to Air, Water and Soil Environmental Sustainability

From Basic Concepts to Advanced Applications

Izabel C Riegel-Vidotti Federal University of Paraná (UFPR), Brazil
Lizandra Maria Zimmermann Fundação Universidade Regional de Blumenau, Brazil
Heloise R de Barros Federal University of Paraná, Brazil

Synopsis

This book provides an integrated approach to solving and mitigating environmental problems using colloid science technologies and considers the relationship between air, water and soil. The introduction establishes the book scope and significance in the modern world including information on current applications of colloidal materials to environmental sustainability, basic concepts in colloidal science focused on the relevant physical chemistry and the main aspects related to their safe application. The following chapters are organized according to three main topics: application of colloids for air, water and soil monitoring and sustainable remediation. Contributing to the understanding of how colloidal materials can be used now and, in the future, this book will be of interest to a broad audience, from material scientists to environmental scientists.

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THEMA:	MKG, MKSH, PNB
BISAC:	MED071000, MED019010, MED080000
Series:	Drug Development and Pharmaceutical Science Volume 5

Targeted Radiopharmaceuticals and Imaging

Development Challenges and Opportunities

Ved Srivastava Global Peptide Science Institute (GPSi), USA
Rakhee Vatsa Tata Memorial Centre, India

Synopsis

Targeted radiopharmaceutical therapy (RPT) is emerging as an innovative approach for treating a wide range of cancers. The book offers a comprehensive perspective on the different technologies and addresses the critical challenges in developing and commercializing radiopharmaceuticals. This resource is ideal for postgraduates and researchers in drug discovery and development in radionuclide therapy and imaging in cancer, as well as medical professionals engaged in nuclear medicine and radiology.

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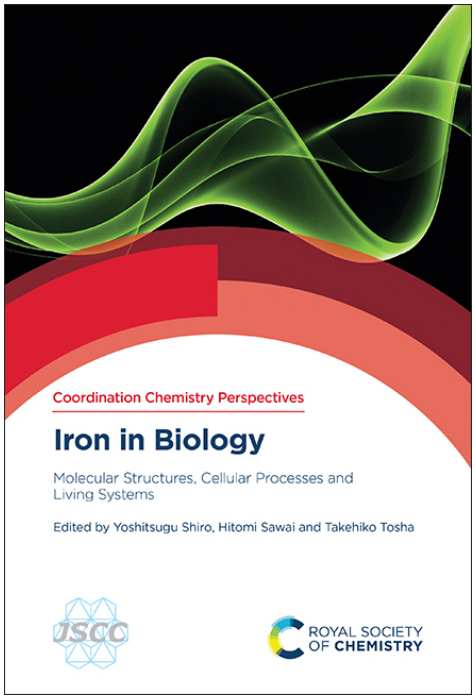

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BISAC:	SCI013030, SCI013040, SCI007000
Series:	Coordination Chemistry Perspectives Volume 1

Iron in Biology

Molecular Structures, Cellular Processes and Living Systems

Yoshitsugu Shiro University of Hyogo, Japan
Hitomi Sawai Nagasaki University, Japan
Takehiko Tosha University of Hyogo, Japan

Synopsis

This book focuses on iron (Fe) in cells, since it is the most abundant metal in living system and is involved in a variety of physiological events. Both excess and shortage of iron cause serious diseases such as anaemia, cancer and neuronal degeneration. The cellular systems consisting of specific proteins strictly control the iron contents through the iron dynamics in cells including absorption, sensing, storage, transport and usage. Resulting from a 5-year project on Integrated Biometal Science in Japan, this book not only documents the latest research but also fills a gap between chemical understanding and our real life.

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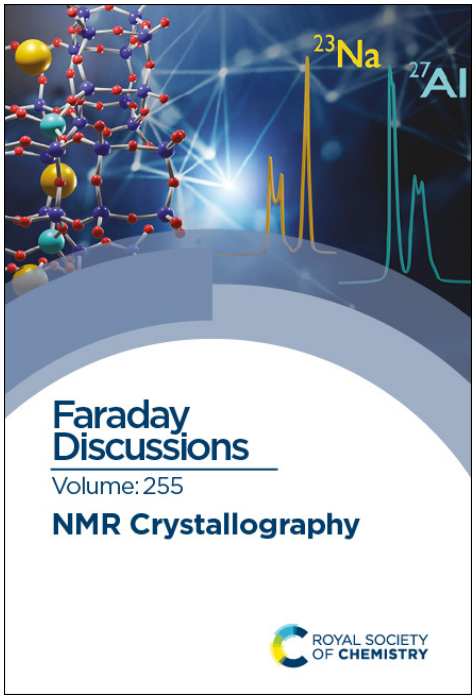

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Size:	234 x 156 (Royal 8vo) mm
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BISAC:	SCI013010,
Series:	Faraday Discussions Volume 255

NMR Crystallography

Faraday Discussion 255

Synopsis

A fundamental cornerstone of physical chemistry is knowledge of the structure of the chemical system in question. For the study of solid materials, nuclear magnetic resonance (NMR) spectroscopy and diffraction techniques are two of the most widely used structural probes in the physical chemistry toolkit and continue to see advances in hardware and methodology.This volume brings together physical chemistry researchers to discuss emerging computational and experimental methods in the field of NMR crystallography, as well as the current limitations and challenges that need to be overcome to broaden applications to increasingly complex materials.

Brief Contents

- Big Data and Simulations in NMR Crystallography
- Challenges and Opportunities for NMR Calculations
- Generating Models that Describe Complex Disorder
- Understanding Dynamics and Mechanisms

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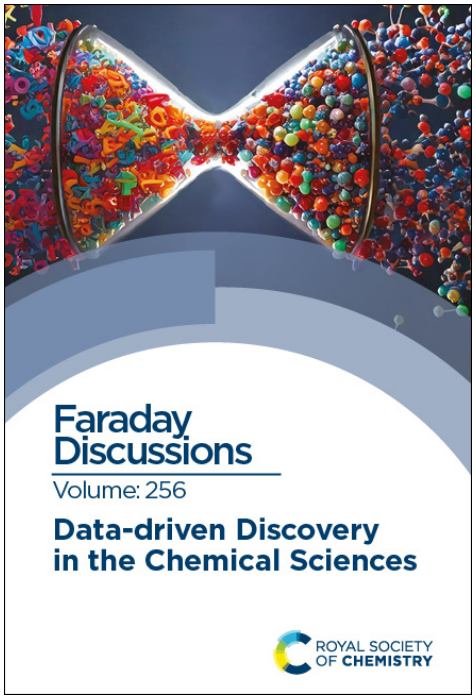

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Data-driven Discovery in the Chemical Sciences

Faraday Discussion 256

Synopsis

Big data, machine learning and artificial intelligence are becoming increasingly more central in the chemical sciences. Bringing together scientists from a wide range of chemical sciences to deliberate and examine the ongoing role of data-driven discovery in their fields, this volume offers valuable new insights into how data-driven discovery can advance the chemical sciences.

Brief Contents

- Discovering chemical structure
- Discovering structure–property correlations
- Discovering trends in big data
- Discovering synthesis targets

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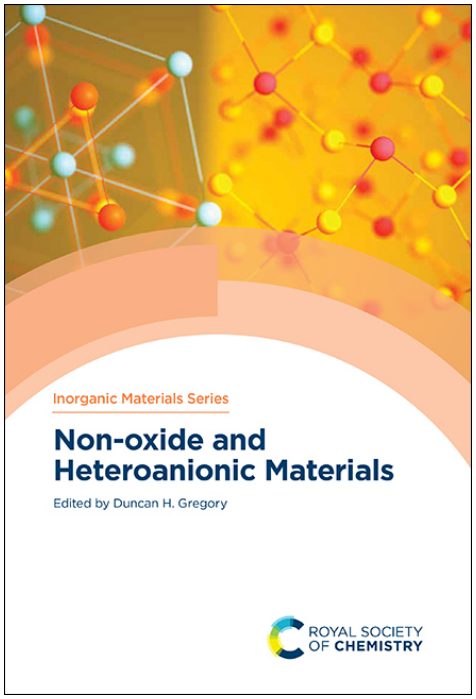

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THEMA:	TGM, PNK
BISAC:	TEC021000, SCI013030
Series:	Inorganic Materials Series Volume 16

Non-oxide and Heteroanionic Materials

Duncan Gregory University of Glasgow, UK

Synopsis

Much of traditional solid state chemistry invokes changes in the structures and properties of solids via addition or substitution of cations. This book considers the role and importance of pnictides, chalcogenides, carbides and halides, among others, in redefining modern solid state materials chemistry. Written in an accessible style, **Non-oxide and Heteroanionic Materials** provides a valuable resource for advanced undergraduates and postgraduates across solid state chemistry, catalysis and materials science, as well as researchers looking for an introduction to the subject.

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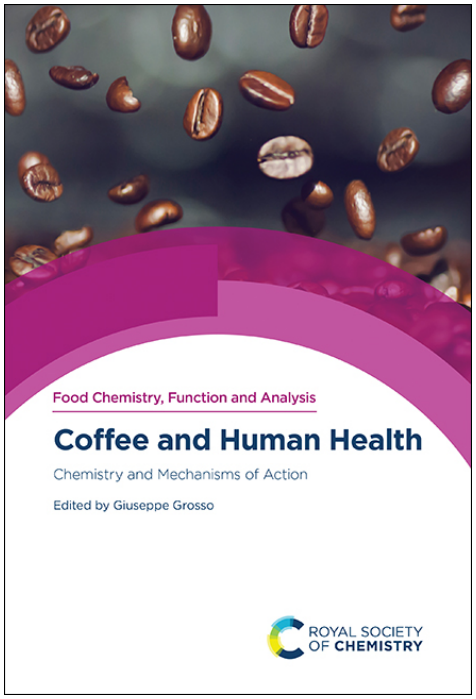

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THEMA:	TDCT, MBNH3, PND, PSB
BISAC:	TEC012000, MED060000, SCI007000, SCI013000
Series:	Food Chemistry, Function and Analysis Volume 45

Coffee and Human Health

Chemistry and Mechanisms of Action

Giuseppe Grosso University of Catania, Italy

Synopsis

This book provides an updated overview of existing evidence for the health effects of coffee consumption. Readers embark on a journey starting with the worldwide consumption of this beverage, its varieties, and main chemical characteristics, going through a detailed analysis of all its components and ending with its potential effects on human health - good and bad.

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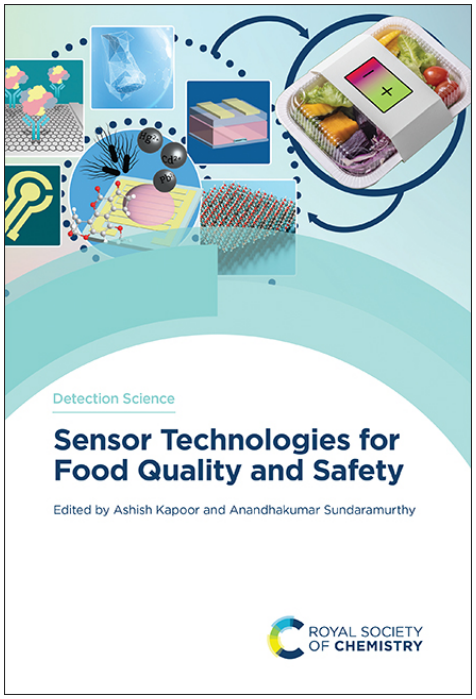

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THEMA:	TJS, PND, PNF, TCBS
BISAC:	TEC012030, SCI013010
Series:	Detection Science Volume 29

Sensor Technologies for Food Quality and Safety

Ashish Kapoor SRM Institute of Science and Technology, India
Anandhakumar Sundaramurthy SRM Institute of Science and Technology, India

Synopsis

The multidisciplinary field of food sensor development is evolving rapidly. Prompt detection of food contaminants is vital for public health protection. In this book, experts cover various recent developments in the field with illustrative descriptions of successful practical applications and identify existing challenges and prospects. Compiling current progress in food quality sensors, it fills a gap in the literature by laying down a framework for food sensor development from idea to implementation. With an emphasis on multidisciplinary aspects, the book appeals to students, academics, researchers and industry personnel from diverse backgrounds with an interest in food science and food quality assurance.

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