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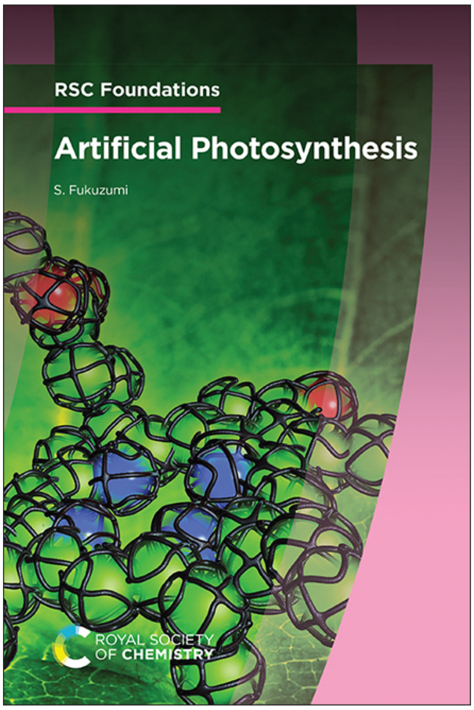

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Target Audience:	Professional and scholarly
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Pages:	178
BIC:	PNRH, THX, THRB
THEMA:	THVS, THY, PNRH
BISAC:	SCI013040, TEC031010, SCI013100
Series:	RSC Foundations Volume 1

Artificial Photosynthesis

Shunichi Fukuzumi Osaka University

Synopsis

Harnessing light energy from the sun is already possible and widely used to produce electricity via photovoltaic cells. However, there is a fundamental issue in finding a suitable way of storing electricity. Photosynthesis in green plants locks energy from the sun within the chemical bonds of glucose molecules, not only producing energy but storing it. Molecular mimicry of the fundamental processes occurring in photosynthesis has thus attracted much attention. Penned by a single expert in the field, this book provides a comprehensive review of the molecular-based artificial photosynthesis systems and offers a unified view and future perspective of real artificial photosynthesis.

Key Features and Highlights

- Artificial photosynthesis is an essential component in the next generation of renewable energy generation and storage.
- An accessible narrative to a crucial research area, authored by a leader in the field.
- Provides a unified view, which bridges the fields of homogeneous and heterogeneous catalysis, from an expert in both.

Brief Contents

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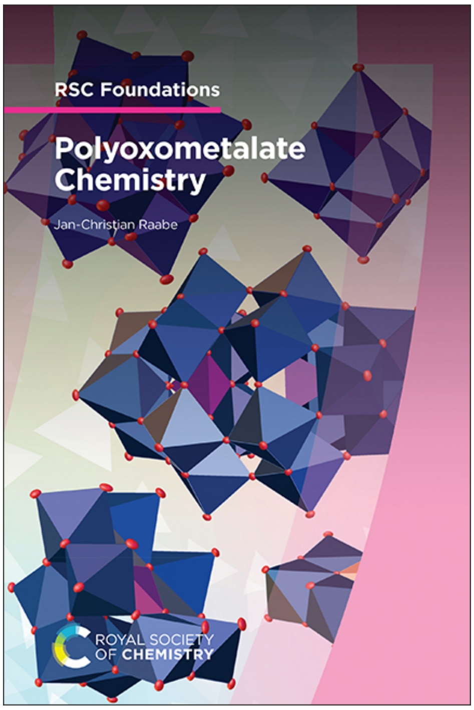

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Size:	234 x 156 (Royal 8vo) mm
Pages:	142
BIC:	PNK, PNT, PD, TBN
THEMA:	PNK, PNT, PDT
BISAC:	SCI013030, SCI016000, SCI000000, TEC027000
Series:	RSC Foundations Volume 3

Polyoxometalate Chemistry

Jan-Christian Raabe University of Hamburg, Germany

Synopsis

Polyoxometalates (POMs) are an established family of metal–oxygen clustered compounds. Their unique properties, discovered over the last century, have allowed them to find applications in catalysis, reaction technology, biochemistry and biomedicine. These materials are used in sustainable and green chemistry processes or in the fight against different diseases due to their solubility in water, a green and environmentally friendly solvent. In addition, the solubility is easy to tailor for the desired application by choosing the correct cation and they can be produced on a large scale. This short book brings PhD students and postdocs, unfamiliar with the specifics of the area, up-to-date. It provides the reader with an overview of the developments and current trends in POM chemistry.

Key Features and Highlights

- This book provides an overview of the development and focus of polyoxometalate chemistry research including synthesis approaches, properties and applications.
- Combines modern applications from technical chemistry to the field of sustainability and green chemistry and the fight against different diseases.
- Explains the fundamental concepts of inorganic chemistry and recognizes the potential of polyoxometalates as an efficient catalyst system.

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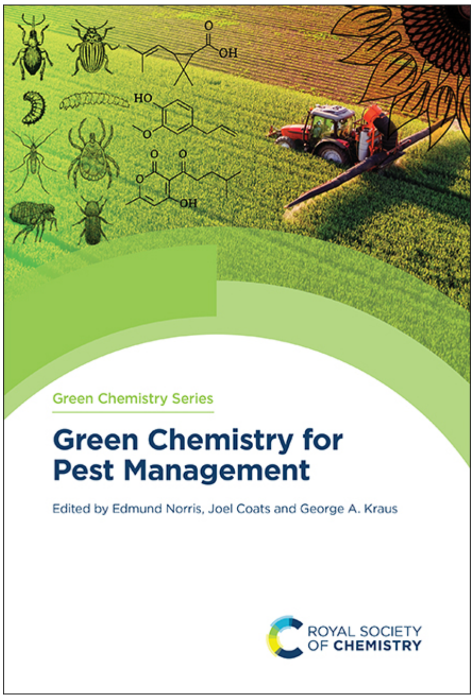

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Price:	£179.00 | $250.00 | €225.00
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Pages:	334
BIC:	TDC, RNU, TVF
THEMA:	TDCA, RNU, TVF
BISAC:	SCI013060, TEC003070
Series:	Green Chemistry Series Volume 92

Green Chemistry for Pest Management

Edmund Norris USDA, USA

Joel Coats Iowa State University, USA

George A Kraus Iowa State University, USA

Synopsis

Crop losses due to insect pests can be economically devastating to farmers and lead to the risk of food shortages. However, pesticide overuse and misuse have led to widespread pesticide resistance and select environmental impacts that limit their long-term utility. Therefore, it is necessary to find new control approaches and chemistries that can reduce pest pressure sustainably without adverse environmental impacts. **Green Chemistry for Pest Management** addresses the known examples of utilizing natural chemistry and other non-traditional methods to control pest insects, plants and rodents.

Key Features and Highlights

- Addresses the known examples of utilizing natural chemistry and other non-traditional methods to control pest insects, plants and rodents
- Discusses natural pesticides from plant, microbial and animal sources
- Explores the use of natural products as templates for the synthesis of biorational and semisynthetic pesticides

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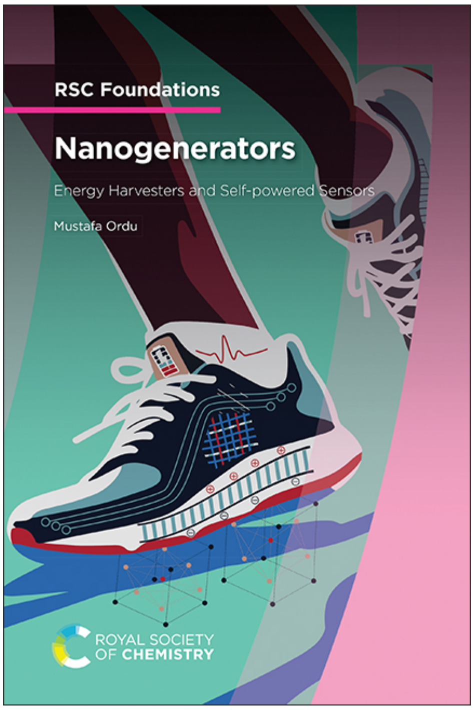

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Target Audience:	Professional and scholarly
Size:	234 x 156 (Royal 8vo) mm
Pages:	126
BIC:	THX, TJFD
THEMA:	THV, TJS
BISAC:	TEC031010, TEC027000
Series:	RSC Foundations Volume 2

Nanogenerators

Energy Harvesters and Self-powered Sensors

Mustafa Ordu Bilkent University, Turkey

Synopsis

Nanogenerators are a promising renewable energy technology for applications like energy harvesters and self-powered sensors. This book explains how mechanical and biomechanical energy can be converted into electricity using piezoelectricity and triboelectricity. It covers materials, fabrication methods, and the pros and cons of each approach, along with hybrid systems. Practical applications are discussed, and the author shares insights on the future of nanogenerators, guiding readers to further explore the topic through references to the literature.

Key Features and Highlights

- A concise guide to a rapidly-growing topic with real-world applications
- Provides focussed information, supported with videos
- Presented by a researcher with experience of bringing products to market

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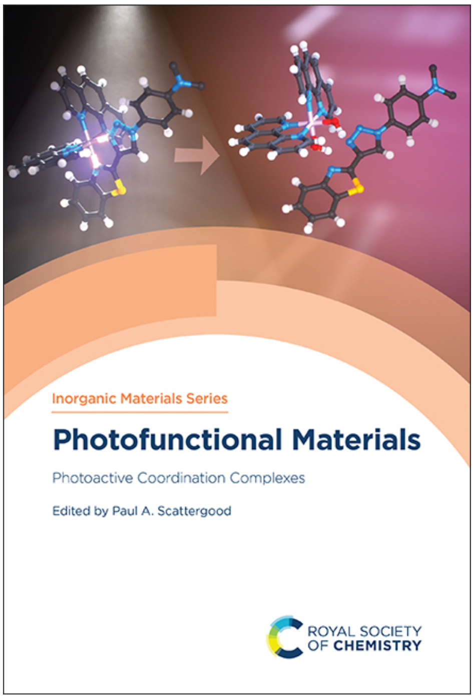

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BIC:	PNK, PNRL
THEMA:	PNK, PNRL
BISAC:	SCI013030, TEC021000, SCI013050
Series:	Inorganic Materials Series Volume 17

Photofunctional Materials

Photoactive Coordination Complexes

Paul A Scattergood University of Huddersfield, UK

Synopsis

This book explores photoactive coordination complexes of d-block elements, focusing on their photophysical properties and light-driven applications like light-emitting devices, biological imaging probes, and chemotherapy agents. It covers the initial design, fundamental properties, and real-world applications of these molecules. The book also discusses future challenges and developments in light-activated functional materials.

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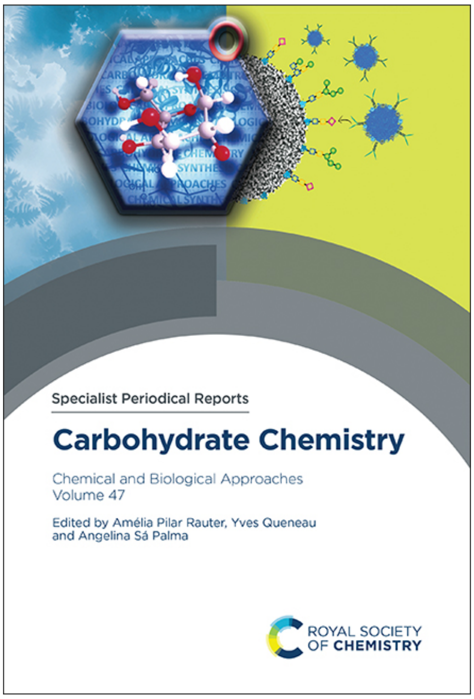

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Price:	£314.95 | $440.00 | €395.00
Publication Date:	22 December 2025
Target Audience:	Professional and scholarly
Size:	234 x 156 (Royal 8vo) mm
Pages:	320
BIC:	PSBF, PNN
THEMA:	PSB, PNN
BISAC:	SCI007000, SCI013040
Series:	Specialist Periodical Reports - Carbohydrate Chemistry Volume 47

Carbohydrate Chemistry

Chemical and Biological Approaches

Volume 47

Amélia Pilar Rauter Universidade de Lisboa, Portugal
Yves Queneau INSA Lyon, France
Angelina Sá Palma Universidade Nova de Lisboa, Portugal

Synopsis

The understanding of the structure, recognition, and function of carbohydrates and glycoconjugates remains crucial in diverse areas at the interface of biology, chemistry and biotechnology and is driving innovation in biomedical and material sciences. This new volume contains critical reviews covering the current state of the art and scientific advances in carbohydrate research. It demonstrates cross-disciplinary areas within the field of glycoscience. The book benefits any researcher who wishes to learn about the latest developments in the carbohydrate field from basic to more applied research.

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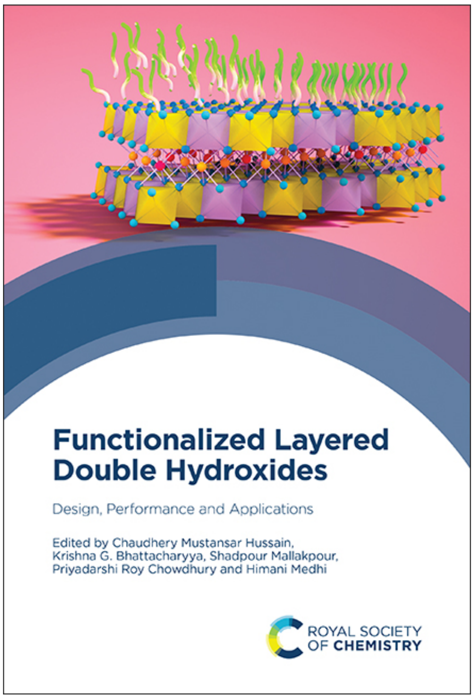

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THEMA:	PNK, TDC, TGM
BISAC:	SCI013030, SCI013060

Functionalized Layered Double Hydroxides

Design, Performance and Applications

Chaudhery Mustansar Hussain New Jersey Institute of Technology, USA
Krishna G Bhattacharyya Assam Don Bosco University, India
Shadpour Mallakpour Isfahan University of Technology, Iran
Priyadarshi Roy Chowdhury Gauhati University, India
Himani Medhi Eastern Karbi Anglong College, India

Synopsis

The extraordinary physicochemical properties of layered double hydroxides offer great potential in a wide range of applications, and interest in this class of 2D material has grown significantly in the last decade. Applying functionalization strategies to LDHs unlocks their heightened performance and opens up new opportunities for the design of novel materials.

Readers will gain the fundamentals of functionalized LDHs and discover new possibilities through the wealth of applications presented, supported by case studies and an outlook on emerging trends.

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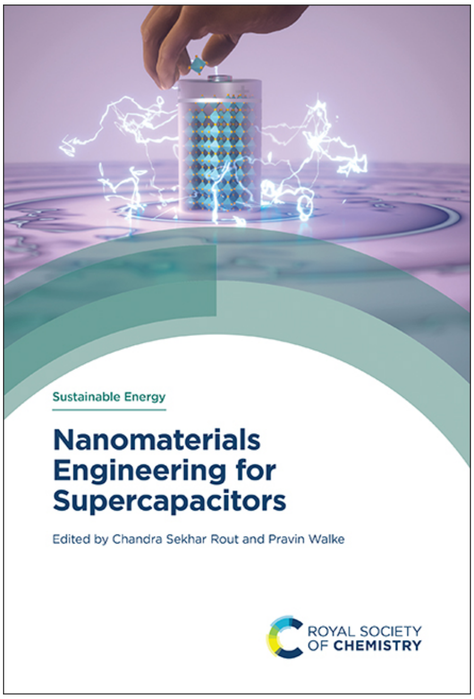

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THEMA: THY, TBN, TGM

BISAC: SCI024000, SCI050000, SCI013080

Series: Sustainable Energy Volume 6

Nanomaterials Engineering for Supercapacitors

Chandra Sekhar Rout Jain University, India
Pravin Walke University of Mumbai, India

Synopsis

This book, “Nanomaterials Engineering for Supercapacitors,” offers a comprehensive technological perspective on how nanomaterials are revolutionizing supercapacitor performance. It highlights the latest advancements in nano-engineering, encouraging the scientific community to bridge gaps across various aspects of the field.

Brief Contents

- Introduction to Supercapacitors
- Flexible and Wearable Supercapacitors
- Charge Storage Mechanisms in Supercapacitors
- Charge Kinematics in Supercapacitors
- Role of Nanomaterials for Supercapacitors
- Popular Electrode Materials
- Two-dimensional Materials for Electrodes in Supercapacitor Applications
- Doping Nanomaterials for Supercapacitors
- Defect-engineered Nanomaterials for Supercapacitors
- Porous Nanomaterials Engineering for Supercapacitors
- Band Gap Engineered Nanomaterials for Supercapacitors
- Interlayer Engineered Nanomaterials for Supercapacitors
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- Emerging Applications of Supercapacitors
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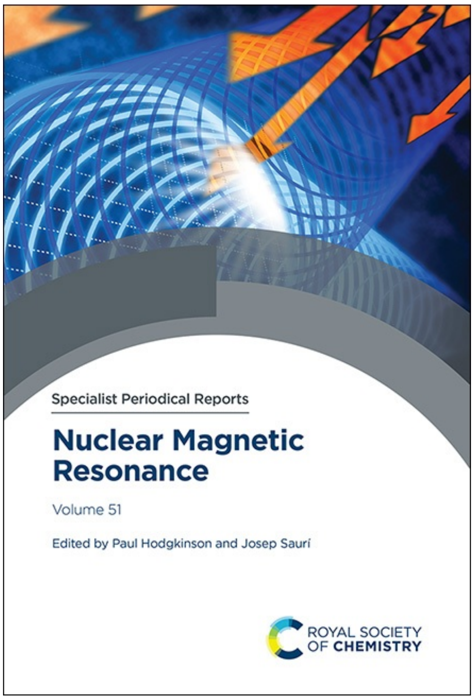

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THEMA:	PNFR
BISAC:	SCI013010
Series:	Specialist Periodical Reports - Nuclear Magnetic Resonance Volume 51

Nuclear Magnetic Resonance

Volume 51

Paul Hodgkinson Durham University, UK
Josep Saurí Universitat Autònoma de Barcelona, Spain

Synopsis

Nuclear magnetic resonance (NMR) continues to revolutionize science, evolving constantly and generating an expansive body of literature. This expertly curated volume brings clarity to complexity, distilling recent advances across the full spectrum of NMR theory and application. From nuclear shielding and spin–spin coupling to relaxation mechanisms, the chapters explore both fundamental principles and practical innovations. Whether you are managing an NMR facility or exploring new research frontiers, this volume offers an indispensable map through the ever-expanding landscape of NMR science.

Key Features and Highlights

- Offers a comprehensive synthesis of the latest advancements in NMR theory and application - from nuclear shielding and spin–spin couplings to real-time studies in living systems.
- Equally useful for newcomers exploring the literature and experienced service managers keeping pace with NMR's expanding utility across disciplines.
- Showcases the unmatched versatility of NMR across chemistry, physics and medicine, with chapters dedicated to biomolecules, soft matter and biomedical environments.

Brief Contents

- Theory and computation of nuclear shielding
- Theoretical and practical aspects of indirect spin–spin couplings
- Nuclear spin relaxation
- NMR spectroscopy of small molecules in solution
- Solid-state NMR spectroscopy
- Hyperpolarisation techniques
- NMR of soft matter systems
- NMR of proteins and nucleic acids
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