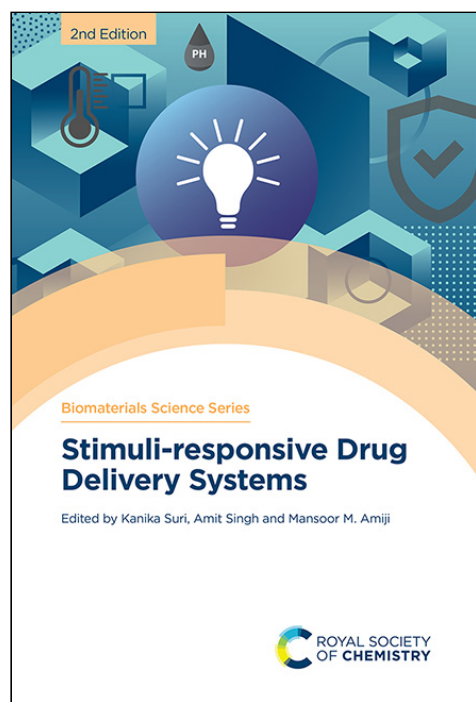


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Series: Biomaterials Science Series
Volume 24

Stimuli-responsive Drug Delivery Systems

Kanika Suri Takeda Pharmaceuticals, USA

Amit Singh AllExcel Inc., USA

Mansoor M Amiji Northeastern University, USA

Key Features and Highlights

- Revised and expanded to reflect the significant advances in the field following the first edition.
- Focus on drug deliver, biomedicine and diagnosis with supporting preclinical and clinical case studies.
- Addresses developments in new technologies, such as smart devices.

Brief Contents

- Introduction and Impact
- Fundamentals of Stimuli-responsive Drug and Gene Delivery Systems
- Materials and Chemistry of Stimuli-responsive Drug Delivery Systems
- pH-sensitive Drug Delivery Systems
- Thermo-responsive Nanomedicines for Drug Delivery in the Gastrointestinal Tract
- Redox-responsive Drug Delivery Systems
- Glucose-responsive Delivery Systems
- Enzyme-responsive Drug Delivery Systems
- Light-responsive Drug Delivery Systems
- Focused Ultrasound-aided Drug Delivery to the Brain
- Electrically Responsive Drug Delivery Systems
- Magnetically Responsive Drug Delivery Systems
- Swelling-controlled Drug Delivery Systems
- Smart Theranostics Systems: Integration of Imaging and Therapy
- Stimuli-responsive Drug–Device Combinations
- Cell Therapy with Stimuli-responsive Materials
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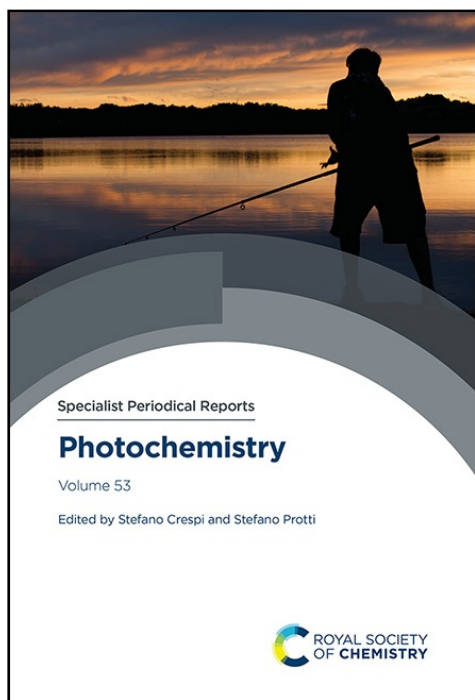
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Photochemistry

Volume 53

Stefano Crespi University of Groningen, The Netherlands

Stefano Protti University of Pavia, Italy

Synopsis

Reviewing photo-induced processes that have relevance to a wide number of academic and commercial disciplines, this volume reflects the current interests in chemistry, physics, biology and technology. The volume begins with periodic reports on recent literature covering physical and inorganic aspects, including colour-related molecules, light-induced reactions in cryogenic matrices and recent advances in photocatalytic water splitting. The second section highlights specific topics, including (among others) the photophysics of fluorescent nucleoside analogues, the development of metal-based photosensitizers for anticancer photodynamic therapy and nanostructured materials for photocatalysis. Finally, the book concludes with the SPR Lectures on Photochemistry, offering examples that introduce academic readers to key photochemical topics and providing valuable support for students in the field. The SPR in Photochemistry continues to be essential reading for postgraduates, academics, and industry professionals working in photochemistry.

Brief Contents

- Introduction of the years 2024–2025
- Light induced reactions in cryogenic matrices (highlights 2023–2024)
- Photophysics of transition metal complexes (2023–2024)
- Recent advances in photocatalytic water splitting and hydrogen generation (2023–2024)
- Photobiological systems studied by time-resolved infrared spectroscopy (2023–24)
- The molecules of colour: the purples mauveine and shikonin and the indigoid isoindigo
- The photophysics of fluorescent nucleoside analogues: insights from quantum mechanical calculations
- Iron LMCT photodecarboxylation catalysis
- Metal-based photosensitizers for anticancer photodynamic therapy
- Nanostructured materials and processes to establish heterogeneous photocatalysis for environmental and energy applications
- Photophysical characterization of light-harvesting antennae based on quantum dots as acceptor units
- Photosensitizing properties of aromatic pterins, a family of natural heterocyclic compounds

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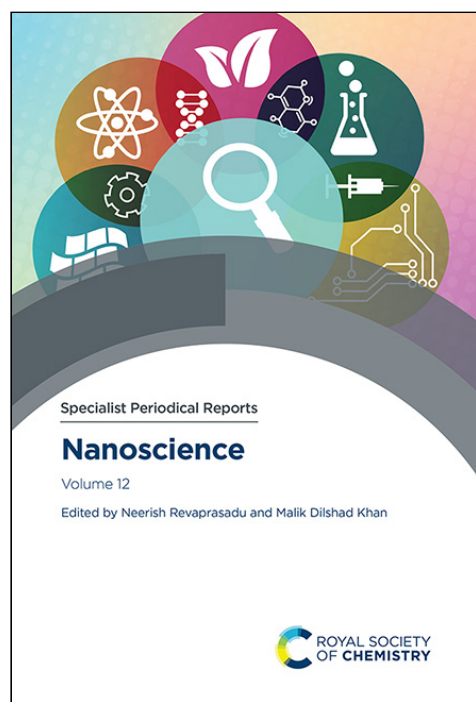
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Nanoscience Volume 12

Nanoscience

Volume 12

Neerish Revaprasadu University of Zululand, South Africa

Malik Dilshad Khan Catalonia Institute for Energy Research (IREC), Spain

Synopsis

This new volume offers a critical and comprehensive analysis of the most up-to-date global advances and perspectives in the field of nanoscience. AI, ultrasound-induced luminescence and nano-robotics for cancer treatment are all covered, plus many more.

Appealing to both established researchers across nano-related disciplines and those new to the field, this valuable resource offers a concise overview of recent advances while providing insightful perspectives on future developments.

Brief Contents

- Nano meets AI: intelligent design and optimization of photocatalysts
- Machine learning interatomic potentials for energy materials and catalysis
- Machine-learning-based nanomaterial design and properties optimization
- Micro and nanorobotics for next-generation minimally invasive cancer treatment
- Advanced materials for enhanced hydrogen evolution reaction
- Next generation photochargeable integrated supercapacitors: advancements and future challenges
- MOF-based and MOF-derived materials for aqueous zinc-ion batteries
- 3D-printed electrochemical sensors: bridging fundamentals and applications
- Mechanochemical synthesis and functionalization of carbon-based nanomaterials for environmental remediation: recent advances and perspectives
- Recent advances in graphitic carbon nitride-based nanomaterials for the detection of hazardous pollutants
- Modern chromium-based coatings: advances in chrome plating, alternatives, and emerging applications
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Organophosphorus Chemistry

Volume 54

David W Allen Sheffield Hallam University, UK

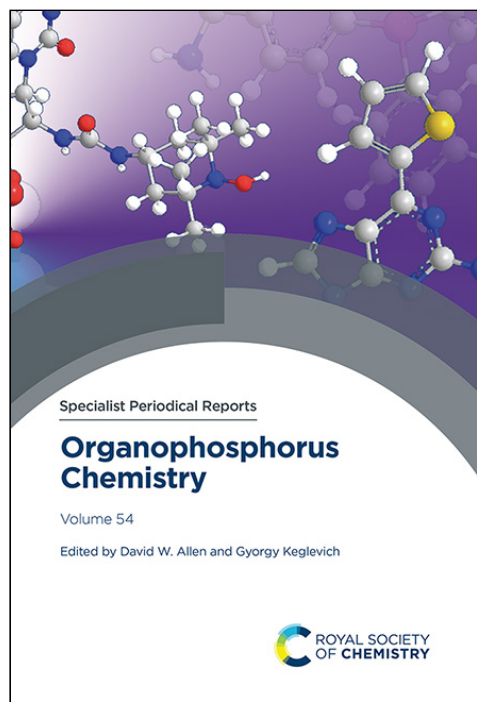
Gyorgy Keglevich Budapest University of Technology & Economics, Hungary

Synopsis

This annual review of the literature provides a comprehensive and critical survey of a vast field of study involving organophosphorus compounds, ranging from phosphines, phosphine-related P–C bonded compounds and their chalcogenide derivatives, phosphonium salts and P-ylides, to tervalent and quinquivalent phosphorus acid derivatives and penta- and hexa-coordinated phosphorus compounds. Recent developments in applications as reagents in green synthetic procedures are also given. With an emphasis on interdisciplinary content, this book will appeal to the worldwide organic chemistry and engineering research communities.

Brief Contents

- Phosphines and their derivatives
- Tervalent phosphorus acid derivatives
- Phosphine chalcogenides
- Phosphonium salts and P-ylides
- Quinquivalent phosphorus acids
- Pentacoordinated and hexacoordinated compounds
- Green synthetic approaches in organophosphorus chemistry: recent developments



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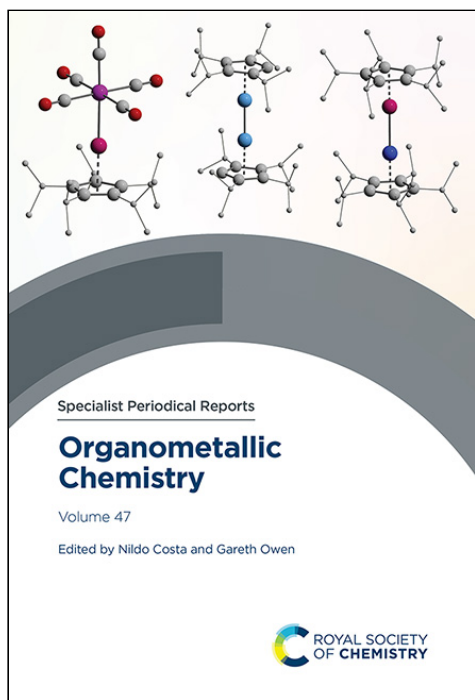
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THEMA: PNND
BISAC: SCI013040
Series: Specialist Periodical Reports -
Organometallic Chemistry
Volume 47

Organometallic Chemistry

Volume 47

Nildo Costa University of South Wales, UK

Gareth Owen University of South Wales, UK

Synopsis

This volume serves as an invaluable resource, offering thoroughly analysed, evaluated, and distilled information on the latest advancements in organometallic and coordination chemistry, as well as emerging fields. This volume can and should be considered an essential reference for researchers in both academic and industrial settings. It provides updates on advances in organometallic chemistry and its relationship with other fields, such as main group chemistry, coordination chemistry and catalysis.

Key Features and Highlights

- Expert-led, critical reviews delivering thoroughly analysed and distilled insights into the latest developments in organometallic chemistry, coordination chemistry and catalysis.
- Comprehensive coverage of cutting-edge topics, from transition metal vinylidenes and dimetalloenes to earth-abundant catalysts, main-group chemistry and ionic liquid systems.
- Essential reference for academic and industrial researchers, helping readers stay current with rapidly expanding literature and understand the connections between organometallic chemistry, coordination chemistry and catalysis.

Brief Contents

- Vinylidenes of Group 8 metals
- Dimetalloenes
- Alkyne hydrosilylation mediated by Earth-abundant Mn, Fe, Co and Ni based catalysts
- Measuring C(sp³)-H bond strengths in chelating ligand frameworks
- NHC copper(I) complexes of main group elements
- Alkali-metal synergistic reactivity of low-valent anionic Group 13 complexes
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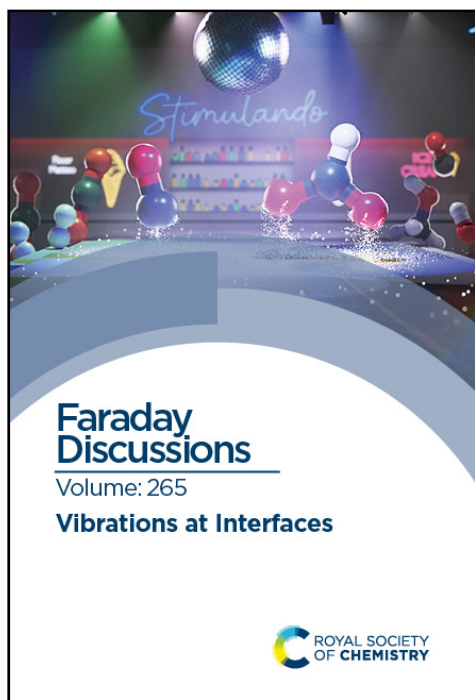
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THEMA: PNFS, PNRX
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Series: Faraday Discussions Volume 265

Vibrations At Interfaces

Faraday Discussion 265

Synopsis

Vibrational spectroscopy at interfaces gives unparalleled insights into areas as far reaching as the transport of energy and matter, adsorbate identity and orientation, bond formation and dissociation, lattice dynamics and surface stress. As a result, it has the potential to offer insights into fundamental aspects of nearly every branch of interface science with examples as diverse as cell wall changes in the presence of antibiotics, the identification of transient heterogeneous catalyst intermediates, and understanding the complexities of the electrode/solution interface. This volume brings together established and early-career scientists, postgraduate students and industrial researchers working on vibrational spectroscopy at interfaces to share ideas on the challenges and prospects in this field.

Brief Contents

- Analysis of complex systems
- Tracking change
- The surface *in silico*
- What is the question what is the technique?

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Molecular and Ion Flows Through Angstrom-Scale Channels

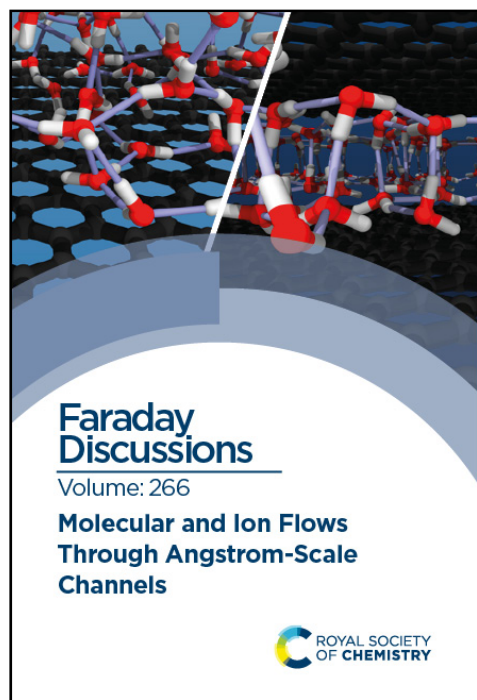
Faraday Discussion 266

Synopsis

The transit of molecules and ions through angstrom-scale channels are core to the fundamental mechanisms of cutting-edge technologies such as ionic/molecular separation, nanofiltration, desalination, neuromorphic ionic memory, DNA and protein translocation and supercapacitors. This Discussion seeks to understand and identify opportunities in the measurement, control and manipulation of nanoscale mass transport across a variety of advanced applications.

Brief Contents

- Stimuli responsive flows in angstrom-channels
- Molecular and ion sieving with angstrom-channels
- Iontronics and emergent neuromorphic effects under angstrom-confinement



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Bridging the Gap From Surface Science to Heterogeneous Catalysis

Faraday Discussion 267

Synopsis

There is currently a great interest in finding new ways to control chemical reactions at catalytic surfaces. A key part of controlling the chemistry at these surfaces is understanding the dynamic nature of catalyst surfaces and local environments in the reaction medium. Both *in operando* and theoretical studies are key to understanding the dynamic environment under real-time reaction conditions and allowing in-depth studies of reaction intermediates. With the ever-increasing range of techniques used to analyse catalytic processes generating an expanding body of data, it is clear that data collection, availability and analysis must also evolve. This volume brings together researchers from across the heterogeneous catalysis and surface chemistry communities to advance the design of new catalysts needed for society's most pressing problems, which range from energy production and air quality to developing environmentally sustainable industry.

Brief Contents

- Chemical mechanisms and system analysis in heterogeneous catalysis
- Impact of artificial intelligence on heterogeneous catalysis
- New experimental methods for observing catalysts in action
- Rational design of dynamic and self-repairing active sites



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Electrochemistry

Volume 20

Craig E Banks Manchester Metropolitan University, UK

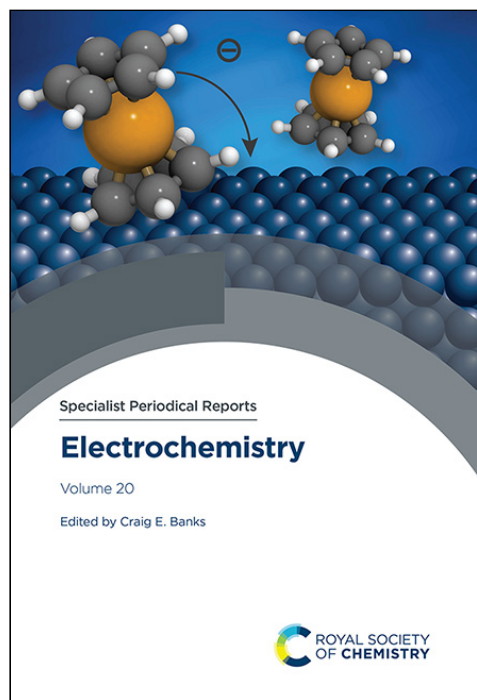
Synopsis

This volume, compiled and written by leading experts in their respective disciplines, offers readers a comprehensive overview of the latest research in the field of electrochemistry, compiled and authored by leading experts.

Topics covered include machine learning approaches for electrochemical signal analysis, biomarker measurement and considerations for validation in electroanalysis, plus a range of other emerging electrochemical applications and methodologies.

Brief Contents

- Validation of electroanalytical methods: a simple and practical tutorial
- Electrochemical biosensors for arboviruses detection: technological advances toward state-of-the-art point-of-care devices
- PFAS electroanalysis
- Edge AI electrochemical sensing enabled by reservoir computing architectures
- Machine learning for electrochemical signal analysis in biological and environmental samples
- MXenes as a singular materials platform for sustainable electrochemical sensing: current trends, opportunities, and challenges
- Innovations and challenges in 3D microbatteries for microelectronic devices
- Electroanalytical overview: the determination of acetaminophen
- Electrochemical aptasensing: the long and winding road to therapeutic drug monitoring
- Artificial intelligence-assisted electrochemiluminescence: data analysis, imaging, and intelligent sensing strategies
- Electrochemical sensing using laser-induced graphene electrochemical sensors for biomedical, environmental, and wearable applications
- From sequence to signal: peptide-based electrochemical biosensors enabling advanced chemical and biomedical applications
- Recent research advancements in transition metal dichalcogenide-based electrocatalysts for electrocatalytic water splitting
- Electrochemical methods for the analysis of biomarkers: current trends and future perspective



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