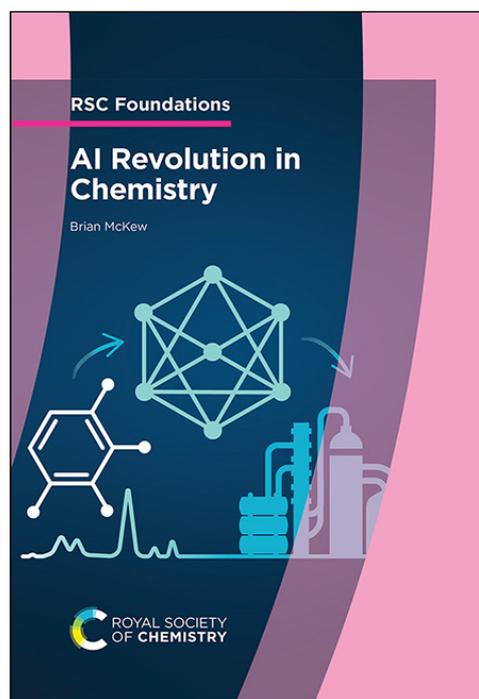


Advance Book Information



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AI Revolution in Chemistry

Brian McKew Consultant, UK

Synopsis

AI Revolution in Chemistry is a concise, vendor-neutral guide for chemists eager to harness AI confidently. It explains key methods like machine learning and digital twins, with practical examples across synthesis, materials design and process control. With checklists, ethical insights and plain-English clarity, it empowers teams to design, pilot and scale AI projects—keeping chemical intuition at the core. Perfect for discovery, development and GMP environments.

Key Features and Highlights

- Equips readers with the knowledge to make informed decision about AI adoption around emerging technologies like quantum AI for molecular modelling.
- Uses familiar chemical examples and laboratory examples to bridge the knowledge gap in implementation.
- Written in partnership with leading AI companies and research institutions to provide cutting-edge, practical insights.

Brief Contents

- Understanding AI and Its Role in Chemistry
- Fundamentals of AI-driven Automation in Chemical Research
- Revolutionising Drug Discovery and Development
- AI-enabled Materials Discovery and Optimisation
- Transforming Chemical Manufacturing with AI
- Enhancing Chemical Safety and Toxicology Through AI
- Navigating Ethical Considerations and Regulations
- The Future of AI in Chemistry
- Practical Implementation Guide
- Conclusion: Embracing the AI-driven Future of Chemistry

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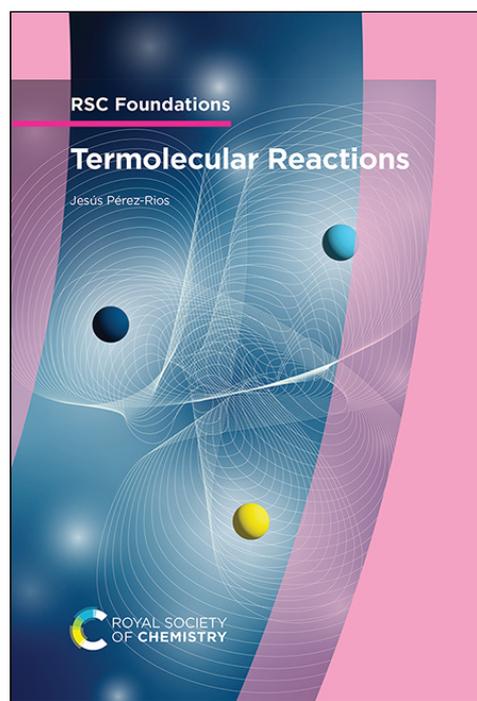
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Termolecular Reactions

Jesús Pérez-Ríos Stony Brook University, USA

Synopsis

This concise volume offers a unified account of termolecular reaction dynamics across energy regimes, from ultracold atoms to plasmas. Integrating statistical models, direct three-body recombination, and classical mechanisms, it links theory and experiment in atmospheric chemistry, combustion, and ion solvation. Each chapter critiques theoretical approaches using experimental data and outlines open questions. Accessible yet rigorous, it consolidates decades of dispersed research. Authored by Jesús Pérez-Ríos, it serves as an essential resource for students and researchers in chemical physics.

Key Features and Highlights

- An accessible introduction, avoiding the need to learn from multiple papers
- Includes essential reaction mechanisms and the direct three-body approach
- Identifies the open questions and remaining challenges in the field

Brief Contents

- Termolecular Reactions in Nature
- Reaction Mechanisms for Termolecular Reactions
- The Direct Approach for Termolecular Reactions
- Statistical Treatment of Termolecular Reactions
- Chemical Systems

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Professional and scholarly

Size: 234 x 156 (Royal 8vo) mm

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BIC: PNR, PHVJ

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BISAC: SCI013050, SCI074000

Series: RSC Foundations Volume 6

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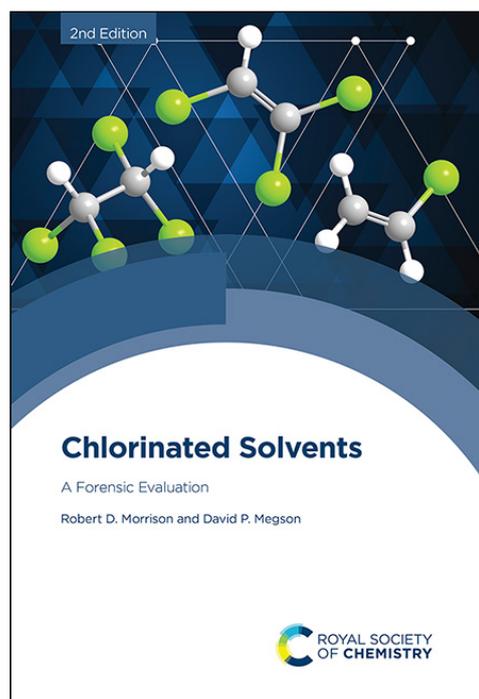
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BISAC: TEC010000, SCI013010,
SCI013080, SCI026000

Chlorinated Solvents

A Forensic Evaluation

Robert D Morrison Morrison and Associates, USA

David P Megson Manchester Metropolitan University, UK

Synopsis

This second edition provides a focus on the integration of the forensic advancements in contaminant modeling, solvent concentration gradients, phytoscreening, molar ratio analysis, dendroecology, compound specific isotope analysis and forensic timestamps. Chlorinated solvents examined in this expanded edition include trichloroethylene, tetrachloroethylene, methyl chloroform, carbon tetrachloride and methylene chloride. Practical methods available to an investigator to optimize sampling locations and media selection and non-traditional analytical techniques for forensic purposes are explained and illustrated in numerous case studies. Extensive references and detailed appendices are included to provide users with the resources to refine the use of these techniques in investigations.

Key Features and Highlights

- A new edition introducing cutting-edge methods such as dendroecology, compound-specific isotope analysis and forensic timestamps, offering investigators a robust and modernized approach to age dating and source identification of chlorinated solvent releases.
- With detailed examples and case studies, provides actionable insights into optimizing sampling strategies, selecting appropriate media and applying non-traditional analytical techniques.
- Combining foundational forensic principles with updates on diagnostic stabilizers and manufacturing impurities, this edition serves as an essential guide for researchers, regulators, and consultants navigating complex contamination scenarios.

Brief Contents

- Chlorinated Solvent Properties and Indexes
- Age Dating and Source Identification
- Solvent Formulations and Stabilizers
- Chlorinated Solvent Production Processes and Manufacturing Impurities
- Integration of Traditional and Forensic Environmental Investigations

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Advance Book Information

Energy Materials for Ingestible and Implantable Healthcare Devices

Santanu Patra Danmarks Tekniske Universitet, Denmark

Anja Boisen Danmarks Tekniske Universitet, Denmark

Synopsis

This book systematically explores the potential of energy materials to be a catalyst in this research and to act as a power bank for biomedical devices, with a focus on ingestible or implantable technologies. Coverage includes elucidating current developments, addressing challenges, proposing solutions and charting future possibilities, all ultimately with the aim of fostering a collective effort towards progress in this critical area of healthcare technology. Aimed at researchers who require an up-to-date overview of the status and challenges for energy materials in healthcare, it summarizes ongoing efforts and highlights the untapped potential.

Key Features and Highlights

- Explores how energy materials can revolutionize the powering of ingestible and implantable technologies, offering a roadmap for overcoming one of healthcare's most pressing technical challenges.
- Equips researchers with the latest insights and tools to advance energy material applications in medical technology.
- Fosters a collective effort among scientists, engineers and healthcare professionals to drive transformative change in patient care by highlighting untapped potential and encouraging innovation.

Brief Contents

- Overview and Need for Energy Materials in Healthcare
- Implantable and Ingestible Technologies
- Energy Solutions for Implantable and Ingestible Electronics
- Characteristics of Materials for Biomedical Energy Transfer
- Biodegradable Mechanical Energy Harvesting for Medical Devices: The Promise of Triboelectric Nanogenerators
- Biochemical Energy Harvesting Using Microbial Fuel Cells: Potential Applications in Implantable and Ingestible Devices
- Biocompatible Batteries for Implantable and Ingestible Devices
- Supercapacitors in Healthcare Devices
- Electromagnetic Waves and Biological Tissue Interactions: Risks and Opportunities in Wireless Power Transfer
- Reconfigurable Wireless Power Transfer for Long-lasting Deep-body Bioelectronics
- Trends and Challenges of Energy Material Integration with Biomedical Devices for *In Vivo* Applications
- Energy Materials for Ingestible and Implantable Healthcare Devices: Conclusion and Future Perspective for Autonomous and Long-lasting Solutions

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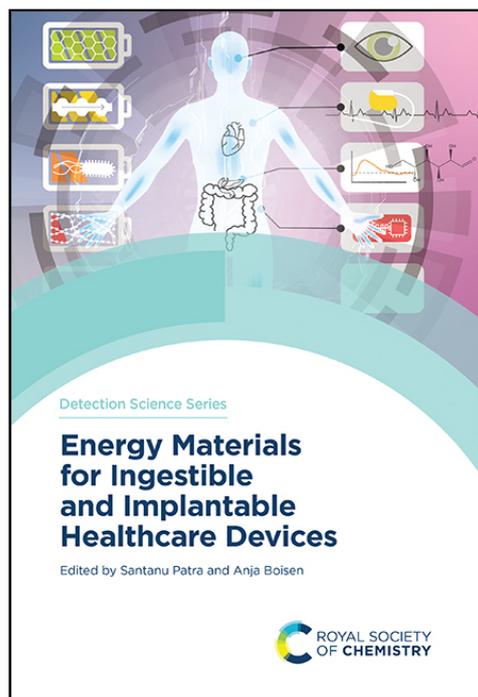
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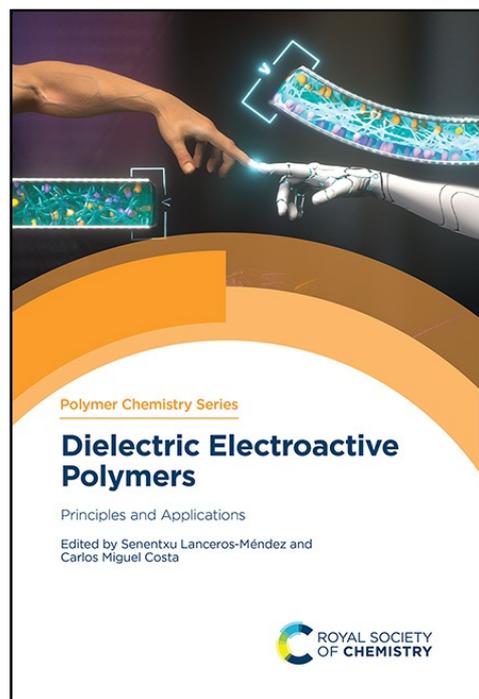
THEMA: THV, MBG, TCB, TGM, MQW

BISAC: SCI024000, TEC021000,
SCI010000

Series: Detection Science Series
Volume 33



Advance Book Information



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Dielectric Electroactive Polymers

Principles and Applications

Senentxu Lanceros-Méndez Basque Foundation for Science, Spain
Carlos Miguel Costa Universidade do Minho, Portugal

Synopsis

This book provides a concise overview of dielectric electroactive polymers, outlining their key properties, fundamental operating principles, and practical applications. It highlights both well-established concepts and recent advances in materials, processing methods, and emerging uses.

Key Features and Highlights

- The book unites high-performance PVDF materials with emerging bio-based alternatives, providing a broad overview of dielectric electroactive polymers from synthesis to application.
- It adopts a structured, multidisciplinary approach spanning materials, processing methods, and device applications in energy, biomedical, and electronic fields.
- Environmental impacts are explored through chapters on PFAS issues, toxicity, and recycling, aligning with regulatory and industrial priorities.

Brief Contents

- Dielectric Electroactive Polymers: Main Types, Characteristics and Functional Response
- Advancements in Synthetic Pathways
- Methodologies to Obtain Bio-based Electroactive Polymers
- Electroactive Polymer Blends
- Electroactive Polymer Composites
- Processing Techniques, Applications and Trends for Dielectric Polymers
- Emerging Electromechanical Sensors and Actuators
- Dielectric Elastomer Sensors: Principles and Applications
- Thermoresponsive Soft Actuators: Design, Fabrication and Properties
- Electroactive Polymers and Polymer Nanocomposites for Cooling Technology
- Dielectric Electroactive Polymers for Memory Applications
- Dielectric Polymers for Transistor Memories
- Dielectric Polymers for Capacitors
- High-temperature Energy Storage Capacitor Applications
- Conducting Polymers and Their Composites
- Dielectric Electroactive Polymers for Battery Devices
- Development of a Piezo Biosensor for Pathogen-specific Biopolymer Detection Using Polymer Piezo Film
- Investigation of Detection Characteristics of Piezo Biosensors and Self-assembly BaTiO₃/Polymer Composite Materials
- Designing High-performance Electrical-responsive Artificial Muscles
- Dielectric Electroactive Polymers for Tissue Engineering
- Mineralization of PVDF, VDF-based Copolymers and Other Fluoropolymers Using Superheated Water in the Presence of Alkaline Reagents
- High Performance PVDF-based Polymers

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Advance Book Information

Functional Metal and Metal Oxide Nanoparticles for Textile Applications

Shahid Ul Islam Jamia Millia Islamia Central University, India

Synopsis

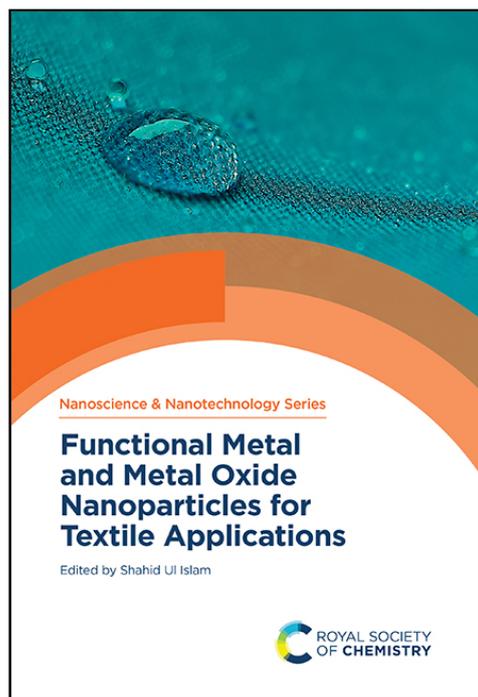
Edited by an expert in the field, this book addresses the gap in comprehensive literature surrounding the integration of metal/metal oxide nanoparticles into textiles. It covers the diverse aspects of this emerging field, ranging from the fundamental properties of metal/metal oxide nanoparticles to their applications, challenges, and future trends.

Key Features and Highlights

- Offers a one-stop resource that addresses key aspects from basic concepts, foundational principles to practical applications.
- Place a strong emphasis on environmental impacts, regulatory frameworks, and ethical considerations associated with the use of metal/metal oxide nanoparticles in textiles.
- Led by an expert in the field with with a wealth of experience working and publishing in the field of nanoparticle-based textile applications.

Brief Contents

- Introduction to Metal/Metal Oxide Nanoparticles in Textiles
- Synthesis of Metal/Metal Oxide Nanoparticles onto Textiles
- Recent Advances in Enzymatic Synthesis for Producing Nanoparticles of Metals and their Oxides for Textile Applications
- Metal/Metal Oxide Nanoparticles in Conductive Textiles
- Metal/Metal Oxide Nanoparticles in Antibacterial and Antiviral Textiles
- Metal/Metal Oxide Nanoparticles in the Development of Smart Textiles
- Applications of Metal/Metal Oxide Nanoparticles-based Textiles in Drug Delivery
- Metal/Metal Oxide Nanoparticle-based Textiles in Sports Applications
- Metal/Metal Oxide Nanoparticles for Enhancing the Performance of Protective Textiles
- Metal/Metal Oxides Nanoparticles in Aerospace and Automotive Textiles
- Environmental Impacts and Sustainability of Metal/Metal Oxide Nanoparticles in Textiles
- Emerging Materials as an Alternative to Metal-based Nanoparticles in Textiles



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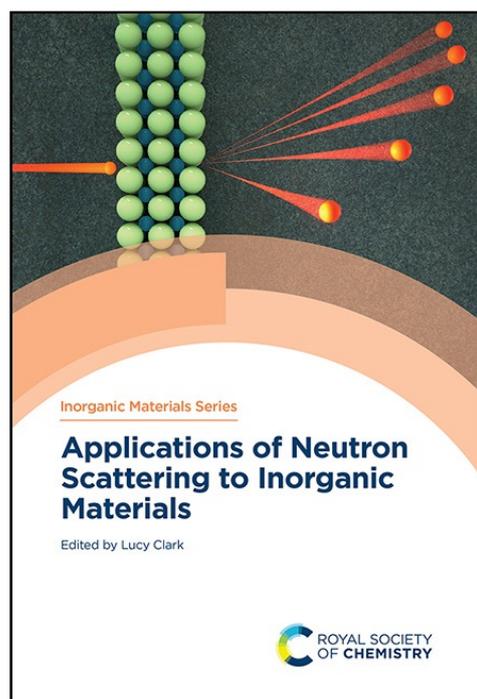
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Applications of Neutron Scattering to Inorganic Materials

Lucy Clark University of Birmingham, UK

Synopsis

This book introduces key neutron scattering techniques essential to modern inorganic materials research. Edited by Dr Lucy Clark, the book gathers experts to explain methods such as neutron diffraction, total scattering, and quasi-elastic and inelastic spectroscopy. Each chapter outlines core principles, recent instrument advances, and applications to challenges in magnetism, catalysis, and energy materials. Aimed at advanced students and newcomers, it bridges fundamentals with cutting-edge research, providing an essential guide to applying neutron scattering in inorganic chemistry.

Key Features and Highlights

- Meets the demand for knowledge on this technique, following significant investment in international neutron facilities.
- Offers a pedagogic approach in keeping with the series aim to support students and those new to the field.
- Analysis of various classes of inorganic material demonstrated by international experts.

Brief Contents

- Neutron Diffraction for Structural Characterisation of Inorganic Materials
- Neutron Total Scattering and Pair Distribution Function Analysis for Local Structure Determination of Inorganic Materials
- Probing Stochastic Motions in Inorganic Materials with Quasi-elastic Neutron Scattering
- Studying Lattice Dynamics in Inorganic Materials by Inelastic Neutron Scattering
- Neutron Scattering for Inorganic Magnetic Materials

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THEMA: PNK, PNFS, TGM

BISAC: SCI013030, SCI013010,
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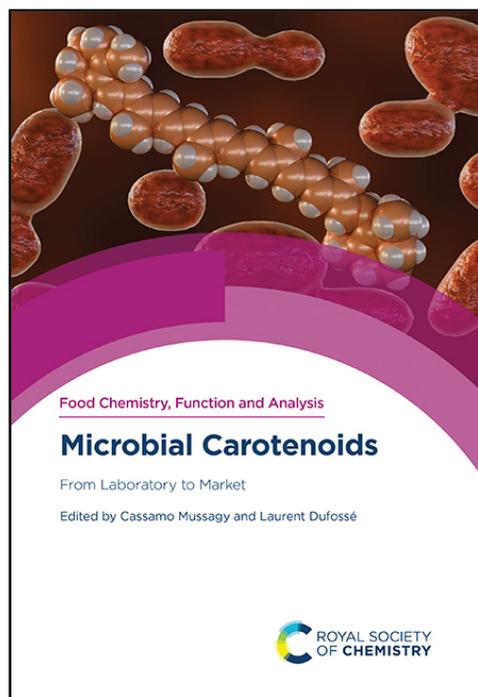
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Microbial Carotenoids

From Laboratory to Market

Cassamo Mussagy Pontifical Catholic University of Valparaiso (PUCV), Chile

Laurent Dufossé University of Réunion Island, France

Synopsis

Carotenoids are powerful antioxidants that promote health by protecting against disease and boosting the immune system. This book describes the fundamental aspects of carotenoids and explores groundbreaking microbial production techniques. It highlights recent advances in genetic and metabolic engineering, shedding light on their potential for industrial applications. Comprehensive coverage includes upstream and downstream processing methods for scaling up production, analytical techniques for precise quantification and applications across diverse industries such as food, pharmaceuticals, cosmetics and animal feed. The book examines economic and regulatory factors influencing the carotenoid market and underscores the environmental and sustainability benefits of microbial production. Researchers, industry professionals, and students, will all discover the cutting-edge, practical insights that unlock the full potential of carotenoids.

Key Features and Highlights

- Provides an in-depth exploration of carotenoids, from their fundamental properties to their microbial production and industrial applications.
- Features the latest developments in genetic and metabolic engineering, as well as innovative analytical methods and equips the reader with up to date information to advance their understanding and utilization of carotenoids.
- Bridges the gap between academic research and commercial implementation in industries like food, pharmaceuticals, cosmetics, and animal feed.

Brief Contents

- The Importance of Producing Carotenoids from Microorganisms
- Microbial Production of Carotenoids
- Fermentation Techniques in Microbial Carotenoid Production
- Genetic Engineering Tools to Increase Carotenoid Production
- Downstream Processing to Obtain Carotenoids
- Analytical Tools for Carotenoid Characterization and Quantification
- Health Benefits and Nutritional Significance of Microbial Carotenoids
- Applications of Microbial Carotenoids in the Food and Beverage Industries
- Innovative Applications of Microbial Carotenoids in the Pharmaceutical, Cosmetic, and Nutraceutical Sectors
- Applications in the Feed Industry
- Product Development
- Case Studies – Successful Commercialization of Microbial Astaxanthin
- Environmental, Economic, and Sustainability Perspectives on Microbial Carotenoid Production
- Microbial Carotenoid Market Trends and Regulatory Considerations
- Collaboration and Partnerships
- Future Perspectives and Concluding Remarks

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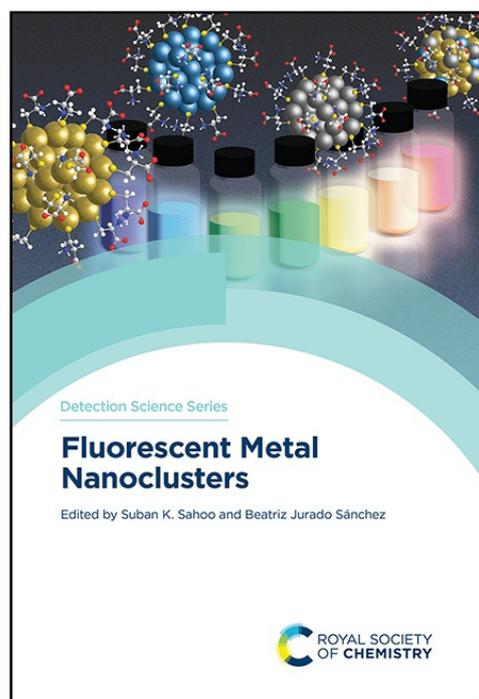
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Fluorescent Metal Nanoclusters

Suban K Sahoo Sardar Vallabhbhai National Institute of Technology, India
Beatriz Jurado Sánchez University of Alcalá, Spain

Synopsis

Fluorescent metal nanoclusters are transforming analytical chemistry with their molecule-like photoluminescence, biocompatibility and chemical stability. This book offers a comprehensive guide to their synthesis, functionalization and real-world applications in sensing, diagnostics and bioimaging. Designed for researchers, students and industry professionals, it explores how precise control over size and surface chemistry enables bright, tunable fluorescence from deep blue to near-infrared. With emphasis on practical design strategies and emerging techniques, it bridges the gap between foundational science and cutting-edge innovation.

Key Features and Highlights

- Delivers topics related to synthesis, design and applications of fluorescent metal nanoparticles employed in sensing, bioimaging and diagnostic applications.
- Will have appeal in research and industrial settings as well as providing a useful introduction to the topic for graduate students.
- Emphasizes functionalizing agents and post-functionalization approaches adopted for designing sensors for targeted detection with fluorescent metal nanoclusters.

Brief Contents

- Fluorescent Metal Nanoclusters: A Note
- Synthesis of Luminescent Metal Nanoclusters with Atomically Precise Structures and High Quantum Yield
- Fluorescent Metal Nanoclusters: Synthetic Strategies via Top-down and Bottom-up Approaches
- Fluorescent Metal Nanoclusters for Metal Ion Sensing
- Fluorescent Metal Nanoclusters for the Detection of Metal Ions and Other Anions
- Fluorescent Metal Nanoclusters for Detecting Small Molecules
- Fluorescent Metal Nanoclusters for Detecting Pesticides and Explosives
- Fluorescent Metal Nanoclusters for Food Sample Analysis
- Biosensing with Fluorescent Metal Nanoclusters
- Fluorescent Metal Nanoclusters for Detecting Pathogens
- Fluorescent Metal Nanoclusters for Bioimaging Applications in NIR
- Fluorescent Metal Nanoclusters for Detecting Biomarkers
- Fluorescent Metal Nanoclusters for Diagnostic and Therapeutic Applications
- Fluorescent Metal Nanoclusters for Catalytic Applications

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