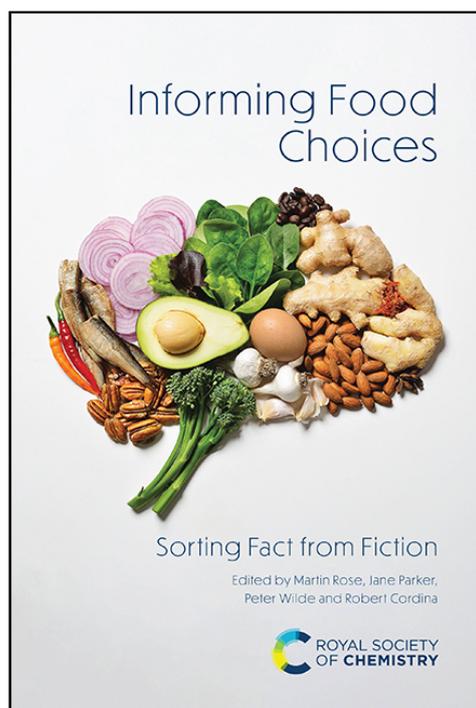


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THEMA: MBNH3, TDCT, JBCC4

BISAC: MED060000, TEC012000,
SOC055000

Informing Food Choices

Sorting Fact from Fiction

Martin Rose University of Manchester, UK

Jane Parker University of Reading, UK

Peter Wilde Quadram Institute Bioscience, UK

Robert Cordina Mondelez, UK

Synopsis

This book explores common insights relating to food choice. Consumers make rapid choices on purported health claims as well as ethical grounds, often without the full facts. The book provides an opportunity to think deeper about food choices and to examine whether choices are always as straightforward as they first seem to be. Widening the arguments from different points of view and removing the bias in terms of message, the authors examine preconceived assumptions and notions and try to dispel common assumptions about what is best for you. Whilst aimed at a general readership, the content is based on scientific arguments exploring the pros and cons behind popular choices and perceptions.

Key Features and Highlights

- The book tackles widespread confusion and investigates the scientific research around topics like are plant-based products healthier, is margarine plastic and what extra vitamin supplements are really required.
- By examining common perceptions and testing them against real evidence, the authors confirm or dispel popular myths. This balanced, analytical approach helps readers understand what's true, what's exaggerated and what's misunderstood in everyday food conversations.
- Though grounded in scientific argument, the book is written in an engaging and accessible style. It's ideal for anyone curious about how their favourite foods are made, how new food trends arise or how to make smarter, healthier choices.

Brief Contents

- Compositional Differences in Organic Versus Conventional Foods: Implications for Health and Sustainability
- An Insight into Plant-based, Vegetarian and Omnivore Dietary Patterns
- Alternative Proteins
- Next Generation Plant-based Foods – Healthy, More Ethical and More Sustainable?
- Ultraprocessed Foods and Health – Are They All “Bad”?
- Fats and Oils: A Chemical Perspective
- Controversy over the Role of Dietary Fats, Blood Cholesterol and Cardiovascular Diseases
- Understanding Genetically Modified Crops in the Food Chain
- Chemical Contaminants in Food: Why Not Aim for Zero Tolerance?
- Healthy, Natural and Sustainable Food Additives? Unpacking the Chemistry Behind Our Food Choice
- Pet Food
- Janus' Feast: The Two Faces of Nitrates and Nitrites in Health
- Deconstructing the “Good Food” Myth: A Balanced Perspective on Dietary Choices

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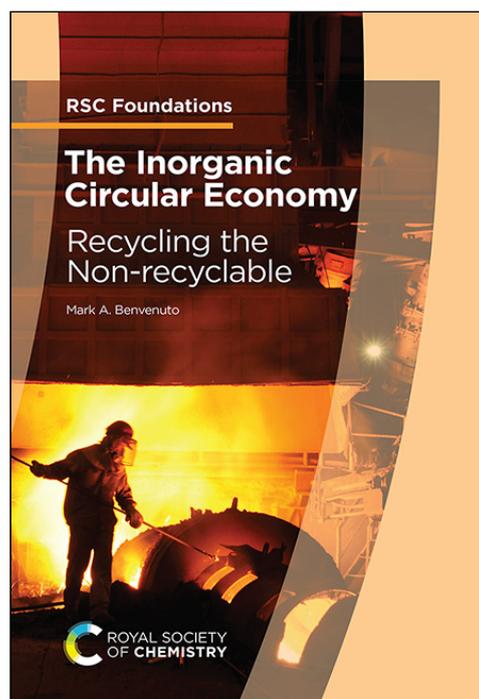
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Advance Book Information



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The Inorganic Circular Economy

Recycling the Non-recyclable

Mark A Benvenuto University of Detroit Mercy, USA

Synopsis

Modern technologies rely heavily on a number of inorganic elements. From the lithium in your laptop battery to the helium that cools hospital MRI machines inorganic materials are crucial to many parts of life. The supply of these materials that we can extract from the environment is finite and many of them present an environmental hazard when concentrated in landfill waste. Recycling is therefore key to being able to continue to sustainably use these elements. Discover which inorganic materials can be recycled, which could be recyclable in the future and which may never be recyclable.

Key Features and Highlights

- Provides a detailed overview of the many inorganic materials in commercial use and whether or not a pathway exists for their recycling
- Takes a practical view with discussion of abundance and quantity in use, as well as economic and technical feasibility of recycling processes
- Offers a vision of how the future might look for inorganic materials recycling

Brief Contents

- Introduction
- Alkali Metals and Alkaline Earth Metals
- Early Transition Metals
- Mid-transition Metals
- Late Transition Metals
- Post-transition Elements
- Lanthanides
- Actinides
- Helium
- Directions for the Future

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Audience: Professional and scholarly

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BISAC: SCI013030,

Series: RSC Foundations Volume 5

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Advance Book Information

Phage Therapy from Theory to Practice

Chuanbin Mao University of Oklahoma, USA

Synopsis

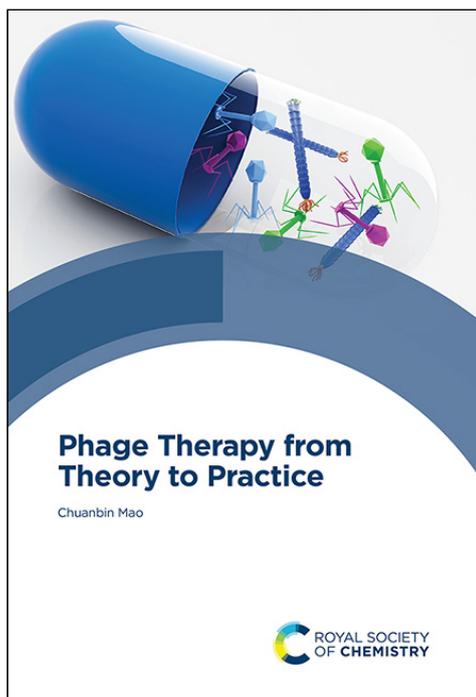
This book offers a comprehensive guide to phage therapy as a cutting-edge solution to antimicrobial resistance. Covering phage biology, therapeutic strategies, delivery systems, and clinical applications, it bridges foundational science with translational insight. With global case studies and future-facing perspectives—including AI integration and personalized medicine—it equips researchers and clinicians to advance targeted treatments. A timely resource for those tackling superbugs through innovation and precision.

Key Features and Highlights

- Organised from theory to practical applications, provides a comprehensive and accessible resource, equipping readers with a solid understanding of the principles and developments in phage therapy.
- Includes recent progress on combination therapy strategies, in particular, the delivery systems for enhancing phage therapy.
- Identified as an IUPAC Top 10 Emerging Technology, and authored by a recognised expert in the field.

Brief Contents

- History of Phages
- Phage Biology and Classifications
- Phages for Fighting Against Antimicrobial Resistance
- Single Phage and Cocktail Therapy
- Combination Phage Therapy
- Genetically Engineered Phages for Therapy
- Delivery Systems for Enhancing Phage Therapy
- Production and Quality Control of Phages
- Clinical Applications of Phage Therapy
- Challenges and Prospective Trends of Phage Therapy



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Audience:

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Pages: 410

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THEMA: PSB, PSD, TCB, MKFM

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Advance Book Information

Fortification and Microencapsulation of Vitamin D

Vaibhav Kumar Maurya National Institute for Food Technology Entrepreneurship and Management, India

David Julian McClements University of Massachusetts, USA

Amita Shakya National Institute for Food Technology Entrepreneurship and Management, India

Sonia Morya Lovely Professional University, India

Synopsis

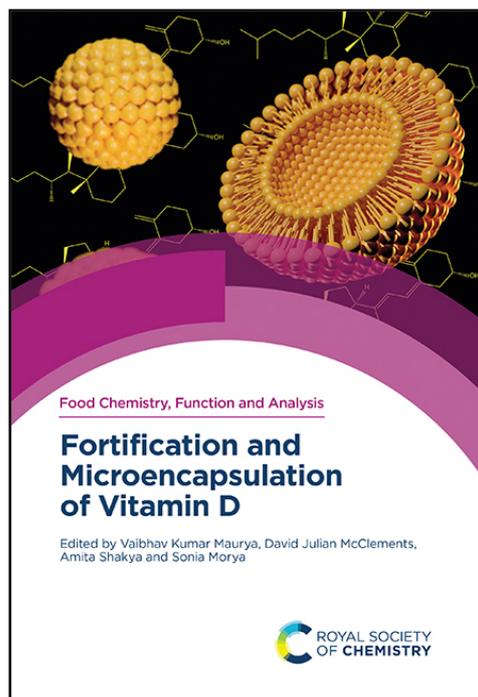
Cutaneous synthesis from sun exposure (specifically ultraviolet B light) is the major contributor to human vitamin D status, the rest of our daily requirement is fulfilled through dietary sources. Today, as vitamin D deficiency is increasing globally, we are looking for more efficient and effective ways to get bioavailable vitamin D into our diet. This book provides a complete reference on vitamin D with respect to its role in human health, factors affecting its synthesis and stability and its deficiency and factors influencing that deficiency around the world. Appeals to food developers and processors, nutritionists, food technologists and research scientists. It may also help public health organisations looking at where food fortification can be adopted to decrease deficiencies.

Key Features and Highlights

- Offers a timely and comprehensive exploration of vitamin D's role in human health and the growing global challenge of deficiency.
- Equips readers with strategies to improve dietary intake and bioavailability through innovative delivery systems.
- From food fortification to advanced nano-delivery and microencapsulation techniques, provides cutting-edge insights into overcoming physicochemical barriers to vitamin D stability and absorption - essential for food scientists and technologists.

Brief Contents

- Vitamin D: Historical Perspectives
- The Role of Vitamin D in Human Health
- Vitamin D: Deficiency, Prevalence and Recommendations
- Factors Influencing Vitamin D Stability
- Vitamin D Stability in Different Food Systems
- Factors Influencing Vitamin D Status in Humans
- Strategies Adopted to Address Vitamin D Deficiency
- Vitamin D Fortification: Needs and Approaches
- Bioavailability of Vitamin D: Supplements *Versus* Food
- Vitamin D Fortification: Challenges and Opportunities
- Nanoengineering: A Tool to Enhance Vitamin D Bioavailability
- Nano-delivery Systems for Vitamin D
- Vitamin D Fortification and Microencapsulation: Limiting Factors
- Design to Fortify: A Systematic Approach



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BISAC: TEC012010, SCI007000, MED060000
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Advance Book Information

Supramolecular Polymers

Feng Wang University of Science and Technology, China

Leyong Wang Nanjing University, China

Synopsis

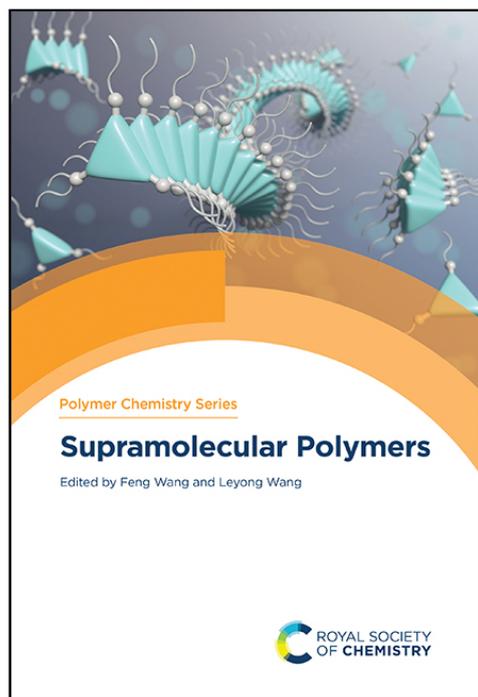
Supramolecular polymers are a unique class of materials composed of monomeric units held together by reversible and highly directional secondary interactions. Over the past decade, the field of supramolecular polymers has experienced remarkable growth, driven by novel non-covalent forces and innovative building blocks. This book, edited by leading experts in the field, begins with a comprehensive overview of the state-of-the-art developments in supramolecular polymer chemistry.

Key Features and Highlights

- Introduces advanced supramolecular polymerization theories—including pathway complexity, living polymerization, and chain-growth mechanisms.
- Highlights recent innovations in fabrication technologies developed over the past decade, offering a timely overview of progress in the field.
- Showcases cutting-edge applications of supramolecular polymers in sustainability, catalysis, electronics, and medicine, emphasizing their versatility and real-world impact.

Brief Contents

- Living Crystallization-driven Self-assembly
- Supramolecular Polymers with Nucleation–Elongation Growth Mechanism and Beyond
- Hierarchical Nanostructures and Topologies of Supramolecular Polymers
- Halogen-based Non-covalent Interactions in Supramolecular Self-assembly
- Supramolecular Assembly and Polymerization of d^8 and d^{10} Transition Metal Complexes
- Synergistic Covalent-and-supramolecular Polymers
- Supramolecular Glasses
- Recycled Supramolecular Plastics
- Supramolecular Polymers for Asymmetric Catalysis
- Supramolecular Organic Frameworks as Porous Supramolecular Polymers for Bioapplications
- Supramolecular Polymer Carrier Materials for Drug Release
- Self-healing Supramolecular Polymeric Materials
- Supramolecular Polymer Materials for Light Harvesting



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THEMA: PNNP, PNND, TDCP
BISAC: SCI013040, TEC055000
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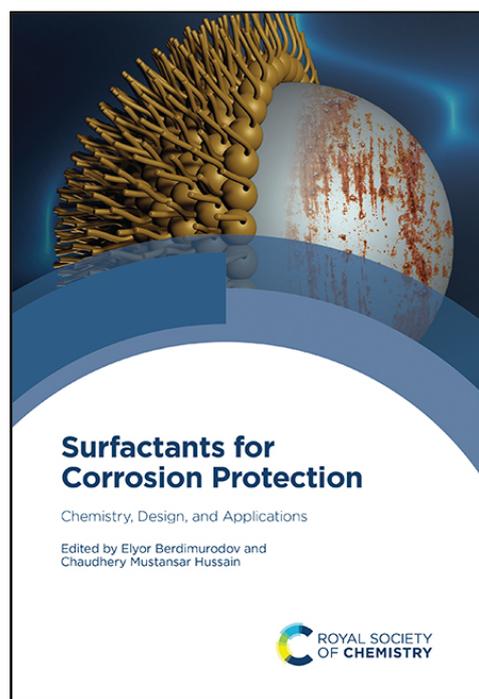
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Surfactants for Corrosion Protection

Chemistry, Design and Applications

Elyor Berdimurodov National University of Uzbekistan, Uzbekistan
Chaudhery Mustansar Hussain New Jersey Institute of Technology, USA

Synopsis

Corrosion costs industry billions of dollars each year. Surfactants are an emerging technology in corrosion protection, offering effective and environmentally friendly alternatives to traditional solutions. Beginning with the principles of surfactants and their chemistry, this book describes their mechanisms for inhibiting corrosion. The diverse types of surfactants are examined, demonstrating which applications suit their unique properties. Chapters dedicated to different industries combine this knowledge with a real-world perspective, making this an essential resource for researchers and professionals.

Key Features and Highlights

- Explores the molecular design and corrosion inhibition mechanisms of diverse surfactant classes.
- Demonstrates surfactant applications across key industries with real-world case studies.
- Addresses sustainability and future innovation in surfactant-based corrosion protection.

Brief Contents

- Introduction to Different Classes of Surfactants and Their Varied Applications
- The Underlying Chemistry of Surfactants and Their Role in Corrosion Protection
- The Mechanism of Surfactants in Corrosion Inhibition
- Principles and Techniques for Designing Surfactants for Corrosion Protection
- Anionic Surfactants: Properties and Applications in Corrosion Protection
- Cationic Surfactants: Properties and Applications in Corrosion Protection
- Nonionic Surfactants: Properties and Applications in Corrosion Protection
- Zwitterionic (Amphoteric) Surfactants: Properties and Applications in Corrosion Protection
- Bio-based Surfactants: Properties and Applications in Corrosion Protection
- Gemini Surfactants: Properties and Applications in Corrosion Protection
- Polymerizable Surfactants: Properties and Applications in Corrosion Protection
- Silicone-based Surfactants: Properties and Applications in Corrosion Protection
- Green Surfactants: Properties and Applications in Corrosion Protection
- Nanoparticle-based Surfactants: Properties and Applications in Corrosion Protection
- Surfactant Mixtures: Properties and Applications in Corrosion Protection
- Organic Surfactants: Properties and Applications in Corrosion Protection
- The Role of Surfactants in Corrosion Protection in Industry
- The Role of Surfactants in Corrosion Protection in Biomedical Applications
- The Role of Surfactants in Corrosion Protection in the Electronics, Automotive, and Aerospace Industries
- Assessing the Environmental and Health Impacts of Surfactants
- Future Trends, Challenges, and Opportunities in the Use of Surfactants for Corrosion Protection

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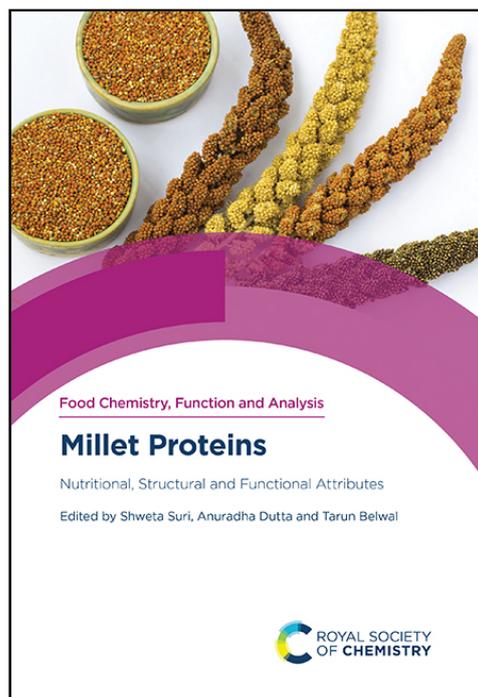
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THEMA: PSB, TDCT, MBNH3
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Series: Food Chemistry, Function and Analysis Volume 49

Millet Proteins

Nutritional, Structural and Functional Attributes

Shweta Suri Amity University, India

Anuradha Dutta Govind Ballabh Pant University of Agriculture and Technology, India

Tarun Belwal Texas A & M University, USA

Synopsis

This book explores the unique benefits of millet protein, a high-protein, gluten-free ancient grain. It covers its bioactive properties, nutritional value, and therapeutic benefits, along with innovative extraction and processing methods. Essential for food scientists and product developers, it offers insights into millet protein's future in the food industry.

Key Features and Highlights

- Covers the characteristics of millet protein and its applicability as an alternative source of protein including nutritional value.
- Provides details of the application of millet proteins in the food industry.
- Investigates the effects of thermal and non-thermal processing on millet protein characteristics.

Brief Contents

- Millets: Species, Types and Nutritional Value
- Millet Protein: A Comprehensive Overview
- Novel Millet Peptides (Millet Derived Bioactive Peptides): Functional Role, Applications, and Challenges
- Nutritional Value, Digestibility and Effect of Millet Protein on the Gut Microbiome
- Millet Proteins Beyond Nutrition: Functional, Structural & Engineering Attributes
- Medicinal Properties of Millet Proteins
- Millet Proteins: Extraction, Isolation and Purification
- Bioactive Properties of Millet Protein
- Thermal and Non-thermal Ways of Processing Millet Protein
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- Advances, Market Value, and Future Outlook of Millet Protein

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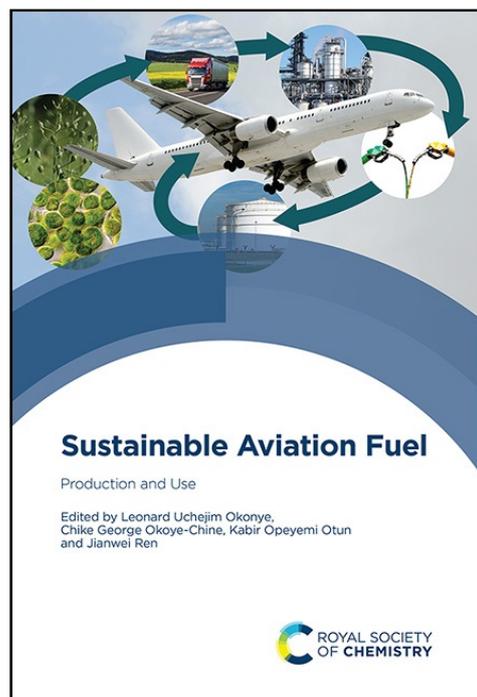
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BIC: THX, RNU, TRP, RND
THEMA: THVB, RNU, TRP, RND
BISAC: TEC031010, TRA002000, POL044000

Sustainable Aviation Fuel

Production and Use

Leonard Uchejim Okonye University of Pretoria, South Africa

Chike George Okoye-Chine University of South Africa (UNISA), South Africa

Kabir Opeyemi Otun University of Pretoria, South Africa

Jianwei Ren University of Pretoria, South Africa

Synopsis

The aviation sector's direct emissions account for roughly 2.5% of global CO₂ emissions. Electrification may be plausible for short flights but is unlikely to be suitable for long haul flights; hydrogen powered planes are a possibility but will only be sustainable if enough hydrogen can be produced sustainably. This means that sustainable aviation fuels (SAF) are urgently needed. Discover the latest research into specific processes and feedstocks for SAF production as well as how they fit into economic, regulatory and political frameworks.

Key Features and Highlights

- Offers an introduction to the concept of sustainable aviation fuel and its importance for the future
- Provides an up-to-date overview of processes and feedstocks for producing sustainable aviation fuel
- Discusses economic, regulatory and political considerations alongside technical details

Brief Contents

- Sustainable Aviation Fuel (SAF): Introduction, and the Need for SAF
- Historical Perspective: Evolution of Sustainable Aviation Fuel Production
- Feedstock Selection and Supply Chain for Sustainable Aviation Fuel (SAF)
- SAF Production Processes
- Biomass-to-liquid (BTL) Processes for SAF Production
- Waste-to-energy Conversion Technologies for SAF Production
- Algae-based Sustainable Aviation Fuel: Cultivation and Conversion
- Hydrothermal Liquefaction: A Promising Pathway for Sustainable Aviation Fuel (SAF)
- Electrochemical Processes for SAF Synthesis
- Biorefinery Approaches for Sustainable Aviation Fuel Production
- Syngas-based Pathways for SAF: Fischer–Tropsch Synthesis
- Sustainable Feedstock Supply Chains for SAF Production
- Life Cycle Assessment (LCA) of Sustainable Aviation Fuel
- Techno-economic Analysis of Sustainable Aviation Fuel Production
- Environmental Impacts and Emissions Reduction Potential of SAF
- Policy and Regulatory Landscape for Sustainable Aviation Fuel: Challenges and Opportunities
- Market Perspectives and Commercialization Strategies for Sustainable Aviation Fuel (SAF)
- Advances in SAF Blending and Compatibility with Existing Aircraft Engines
- Future Prospects: Innovations and Emerging Technologies in SAF Production

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Advance Book Information

The Science of Plant-based Diets in Human Health

Duo Li Qingdao University, China

Synopsis

From gut flora and cardiovascular health to cancer prevention and sustainable development, this book explores the mechanisms that make a plant-based diet a powerful tool for health. Whether you are a student, researcher, healthcare professional or curious reader, this is a guide to the impact of plant-based diets on human health and the planet.

Key Features and Highlights

- The book provides a comprehensive and evidence-based analysis of plant-based dietary patterns, their nutritional composition, and their impact on non-communicable diseases, supported by global research perspectives.
- It uniquely integrates scientific mechanisms, psychological factors, and sustainability considerations, offering a multidisciplinary approach that goes beyond typical dietary guides.
- With contributions from internationally recognized experts, the volume addresses both the benefits and limitations of plant-based diets, while identifying gaps in current research and policy frameworks.

Brief Contents

- Overview of Plant-based Diets
- Nutrition Profile of Plant-based Diets
- Plant-based Dietary Patterns
- Psychology of Plant-based Eating
- Sustainable Nourishment and Livelihoods: Optimising Plant-based Food and Health Systems
- The Structure of Plant-based Diets and Their Relationship with Health
- Plant-based Diets and Infant Development
- Plant-based Diets and the Health of the Elderly Population
- Metabolism of Plant-based Diets and Their Impact on Gut Microbiota
- Effect of a Vegetarian Diet on Cardiovascular Diseases
- Effect of Plant-based Diets on Body Weight and Metabolism
- Plant-based Diets and Diabetes
- Bioactive Phytochemicals of Plant-based Diets for Metabolic Syndrome
- Plant-based Diets and Cancer
- The Effect of Plant-based Diets on Chronic Kidney Disease
- Vegan Diets for Athletes
- How to Prevent Certain Nutrient Deficiencies in a Plant-based Diet

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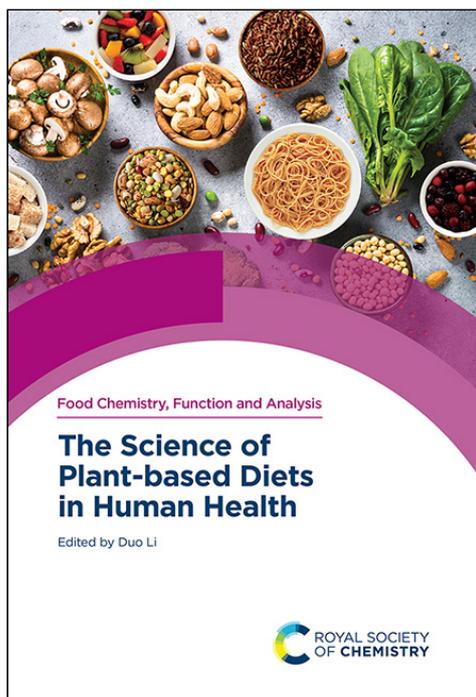
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BISAC: HEA017000,

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Advance Book Information

Advances in Virus Detection with Sensors

Adil Denizli Hacettepe Üniversitesi, Turkey

Synopsis

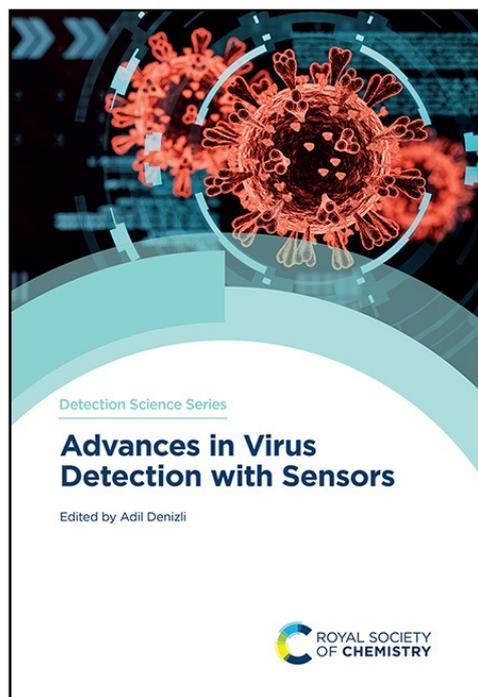
In an era marked by recurring viral outbreaks and global pandemics, the demand for rapid, accurate and scalable virus detection has never been more critical. This book explores the pivotal role of sensor technologies in addressing this challenge, offering a multidisciplinary overview of current methods and future innovations. From traditional detection techniques to breakthroughs like CRISPR-based biosensors, wearable diagnostics and AI-driven analysis, it brings together insights from leading experts across academia and industry. Designed for researchers, engineers, clinicians and policymakers, this volume is a vital resource for advancing the science and strategy of virus detection.

Key Features and Highlights

- Bridges the gap between engineering, biology and data science, offering a shared view of sensor-based virus detection technologies from foundational principles to the latest innovations.
- Explores the forefront of virus detection with in-depth discussions on CRISPR-based biosensors, wearable diagnostics and AI-driven analytics, all contextualized with real-world examples for public health and clinical use.
- Authored by experts from academia and industry, this book is an essential resource for researchers, clinicians, engineers and policymakers seeking to understand and shape the future of global health surveillance.

Brief Contents

- Introduction to Sensor-based Virus Detection Studies
- Overview of Existing Sensor Technologies for Virus Detection
- Optical Sensors
- Electrochemical Sensors
- Mass Sensors
- Comparative Analysis of Different Sensor Types
- Advances in CRISPR-Based Biosensors for Virus Disease Detection: Across Viral Families
- Quantum Dot Sensors
- Wearable and Portable Sensors
- Artificial Intelligence and Machine Learning in Sensor-based Virus Detection
- Introduction to Computational Studies in Virus Detection
- Point of Care Diagnostic for Virus Detection
- Remote Patient Monitoring
- Screening and Early Detection
- Environmental Monitoring
- Sensor Technologies for Virus Detection: Challenges and Perspectives
- Case Studies in Virus Detection Using Sensor Technologies
- Future Directions and Opportunities
- Summary of Insights and Conclusions



All information is subject to change without notice

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Series: Detection Science Series
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Advance Book Information

Biosurfactants for a Sustainable Textile Industry

Monohar Hossain Mondal Government of West Bengal, India

Bidyut Saha University of Burdwan, India

Synopsis

This book explores the transformative role of biosurfactants in creating a sustainable textile industry. As global demand grows, it highlights eco-friendly alternatives to traditional surfactants. Covering biosurfactant chemistry, production, and applications—from improving fabric quality to treating waste—it offers practical insights for researchers and professionals. It also addresses environmental and health impacts, future trends, and contributions to sustainable development goals. Essential for textile R&D, this book fosters innovation and sustainability in one of the world's largest industries.

Key Features and Highlights

- Provides a clear grounding in biosurfactants for anyone working in the industry
- Highly relevant to the UN Sustainable Development Goals
- Demonstrates new opportunities for a global industry to improve the environment and human health

Brief Contents

- Synthesis, Characterization and Screening of Microbial Biosurfactants with Their Vivid Applications in Textile Industry
- Plant Based Bio-surfactants for Ecology and Economy Friendly Sustainable Development of Textile Industry
- Bio Surfactants as a Pivot to the Development of Circular Economy in the Textile Industry
- Recent Advancements in the Application of Bio-surfactants for the Treatment of Textile Waste and Industry Effluents
- Advanced Bio-surfactant Based Treatment Plans for Textile Industry Wastes
- Bio-remediation of Textile Waste Contaminated Water Using Bio-surfactants
- Bio-surfactants and Their Exclusive Opportunities for the Sustainable Development of Future Textile and Auxiliary Industries
- Sustainable Development in Eco-friendly Processing, Washing and Dyeing in Textile Industries by Using Bio-surfactants
- Bio-surfactant Based Formulations for Textile Applications: Supporting SDG 14
- Application of Textile Effluents for the Production of Biosurfactants
- Modern Textile Dyeing
- Utilization of Bio-surfactants in the Solid Waste Management of Textile Industry
- Enhancement of Wool Quality Using Microbial Bio-surfactants
- Bio-surfactants as Bio-emulsifier for Enhanced Dyeing in Textile Industry
- Analysis of Bio-surfactants Produced by Bacteria Growing on Textile Sludge
- Bio-surfactants as Replacement of CFCs in Washing of Clothes: A Step Towards Climate Action
- Role of Biosurfactants as a New Frontier: Non-hazardous
- Role of Bio-surfactants in Detergent Formulation for Modern Textile Industry
- Conclusions: Industrial Case Studies, Future Prospects and Emerging Trends

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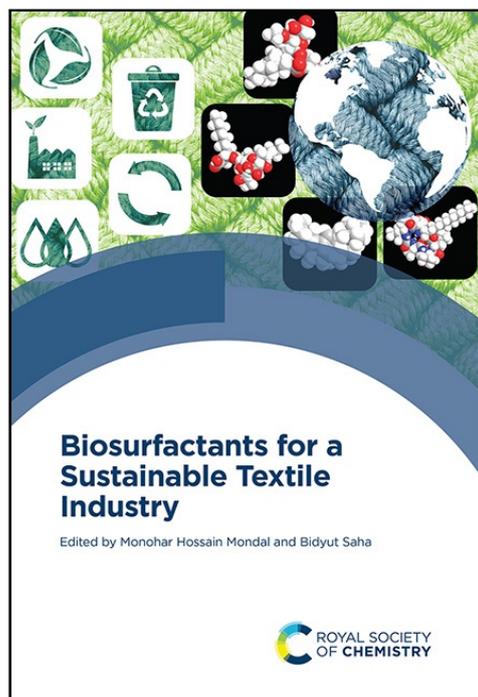
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Audience:

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BIC: TGM, PNN, RNU, TDH

THEMA: TGM, PNN, TDPF, RNU

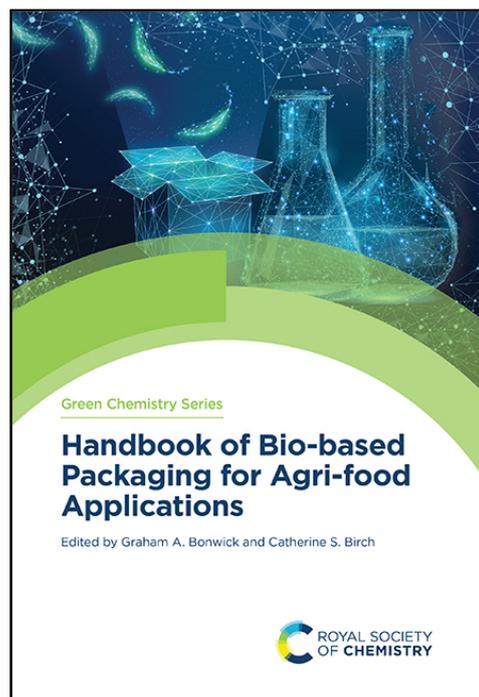
BISAC: TEC021000, SCI013060,

SCI013040, TEC055000,

BUS072000



Advance Book Information



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Handbook of Bio-based Packaging for Agri-food Applications

Graham A Bonwick AgriFoodX Limited, UK

Catherine S Birch AgriFoodX Limited, UK

Synopsis

This book explores the rapidly expanding range of bio-based materials being developed for use in food and drink packaging. The associated issues such as shelf-life performance, safety and sustainability, inclusion of nanosized or nanostructured materials and active and intelligent packaging are considered, along with a focus on safety of these new food contact materials and their sustainability within a circular bioeconomy context. Recent developments enabling the replacement of non-biodegradable plastics used in horticulture and agriculture to reduce environmental contamination are also explored. Driven by consumer demand, this comprehensive book is aimed at the global packaging market and will be of interest to policy makers, research students, industrialists and regulators looking for combined research on sustainable alternatives to fossil-based packaging materials.

Key Features and Highlights

- Explores cutting-edge bio-based and biodegradable materials designed to reduce environmental impact in food, drink and agricultural packaging.
- Covers key topics like shelf-life, nanoscale enhancements and intelligent packaging within a circular bioeconomy framework.
- A must-read for policymakers, researchers and industry leaders seeking actionable insights into eco-friendly packaging solutions.

Brief Contents

- The Future of Biobased Food Packaging
- Recent Advances in Protein-based Packaging for Agri-food Applications
- Bacterial Nanocellulose Packaging Materials Derived from Agricultural Wastes: Challenges and Opportunities
- Chitosan-based Food Packaging Materials: A Review of Fabrication Strategies from Casting to Foaming
- Extrusion Technology for Edible Film Formation: An Overview
- Bio-based Packaging Using Nanocellulose and Chitosan's Structure for Agri-food Applications: Advantages, Innovation, and Challenges
- Polyhydroxyalkanoates (PHAs) for Active Bio-based Packaging
- Biodegradable Protein-based Packaging
- Life Cycle Analysis (LCA) of Bio-based Packaging Materials

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THEMA:	TDCT, RNU, RNH, TGM
BISAC:	TEC012020, SCI013080
Series:	Green Chemistry Series Volume 94

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Advance Book Information

Photoelectron Spectroscopy in Inorganic Materials Science

Robert Palgrave University College London, UK

Philip R Davies Cardiff University, UK

Synopsis

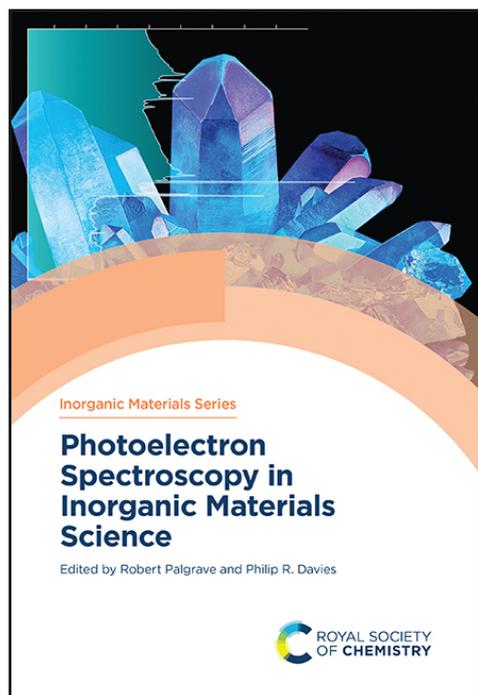
Photoelectron spectroscopy is a ubiquitous technique used in many areas of science and materials research. This book serves as a concise introduction to modern X-ray photoelectron spectroscopy (XPS) practice from the point of view of applications in materials and solid-state chemistry. This book guides the reader through the essential background of the technique, with special attention paid to avoiding mistakes in data analysis which are common in the literature. It further explores specific areas in XPS analysis that are current and significant topics in materials chemistry research and shows best practice in data analysis, sample preparation and future directions in XPS methodology.

Key Features and Highlights

- Provides a rigorous introduction to XPS fundamentals and best practices, addressing common analytical errors and advancing methodological standards.
- Demonstrates the relevance of XPS to current materials research, with chapters on energy storage, catalysis, carbon materials, and solar cells.
- Highlights emerging techniques such as operando measurements and near-ambient pressure XPS, aligning with the latest developments in surface and interface analysis.

Brief Contents

- A Perspective on Photoelectron Spectroscopy for Materials Analysis
- Spectral Interpretation and Data Analysis
- Photoemission Spectroscopy Instrumentation
- Analysis of Battery Materials by X-ray Photoelectron Spectroscopy
- XPS as a Tool for the Investigation of Heterogeneous Catalysts
- Photoemission Spectroscopy of Solar Cell Materials



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Date:

Target Audience: Professional and scholarly

Audience:

Size: 234 x 156 (Royal 8vo) mm

Pages: 286

BIC: PNFS, TGM, PNK, PNRS

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TEC021000

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Volume 19

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Advance Book Information

Machine Learning and Deep Learning in Drug Design

Kunal Roy Jadavpur University, India

Arkaprava Banerjee Jadavpur University, India

Synopsis

This authoritative volume explores how machine learning and deep learning are transforming drug discovery. Covering every stage of the pipeline—from target identification to toxicity prediction—it integrates cheminformatics, pharmacology, and computational modelling. With practical case studies and global expert contributions, it highlights emerging techniques like chemical language models and multi-target drug design. Ideal for researchers and professionals in medicinal chemistry, this book offers essential insights into AI-driven strategies for designing safer, more effective therapeutics.

Key Features and Highlights

- Machine Learning and Deep Learning is fundamentally changing how we approach scientific modelling and the way in which drugs are developed, with pharmaceutical companies accumulating huge quantities of data.
- Integrates computational drug design concepts with basic theories of machine learning and deep learning algorithms.
- Includes recent developments in deep learning methods used in the drug discovery pipeline, as well as chemical language models.

Brief Contents

- Machine Learning and Deep Learning in the Drug Discovery Pipeline
- AI-driven Approaches for Target Discovery in Drug Design
- Machine Learning in Protein Structure Prediction
- Machine Learning Approaches to Chemical Space Exploration
- Machine Learning in Structure-based Drug Design
- Machine Learning in Molecular Dynamics Applications in Medicinal Chemistry
- Machine Learning in Ligand-based Drug Design
- Machine Learning in Virtual Screening of Databases
- Machine Learning in Predicting the Physicochemical Properties of Drug Candidates
- Machine Learning Augmented Rapid Screening and Scoring for an Effective Search for Lead Molecules in Computer-aided Drug Discovery
- Machine Learning in Drug–Drug Interactions
- Machine Learning in Natural Product-based Drug Discovery
- Machine Learning in the Optimization of Pharmacokinetic Parameters
- Machine Learning in Drug-induced Adverse Reaction Modeling: Case Studies of Drug-induced Cardiotoxicity Modeling
- Machine Learning in Drug Repurposing
- Machine Learning Approaches in Multi-target Drug Design
- Chemical Language Model Applications in Medicinal Chemistry
- Machine Learning-based Methods for Designing Protein-based Drugs
- Machine Learning Applications in Vaccine Design
- Leveraging Machine Learning for Network Pharmacology

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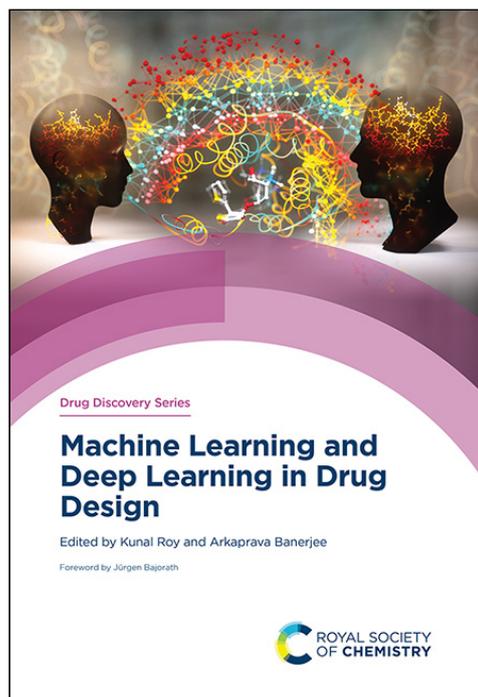
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Series: Drug Discovery Series Volume
87

