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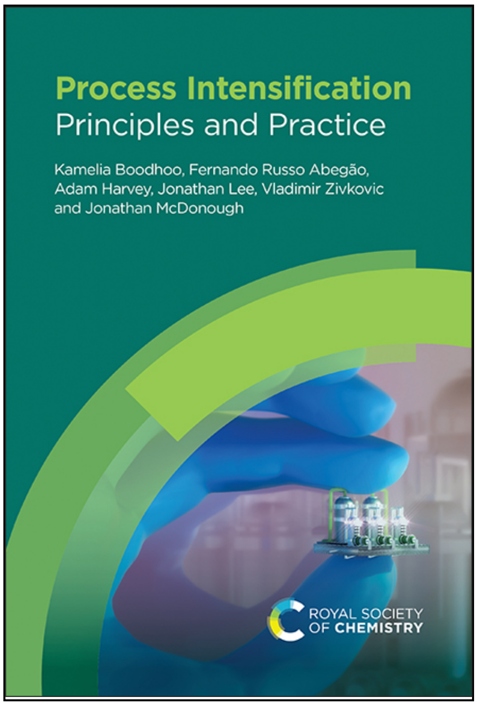

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BISAC:	SCI013060, TEC018000, TEC009010, BUS072000

Process Intensification

Principles and Practice

Kamelia Boodhoo Newcastle University, UK
Fernando Russo Abegão Newcastle University, UK
Adam Harvey Newcastle University, UK
Jonathan Lee Newcastle University, UK
Vladimir Zivkovic Newcastle University, UK
Jonathan McDonough Newcastle University, UK

Synopsis

Beginning with basic chemical engineering principles for chemists and those who need a refresher, this textbook aims to teach process intensification to green chemistry newcomers and chemical engineering students. Based on the authors' own courses and teaching experience, with worked examples, end-of-chapter learning outcomes and problem sets with solutions, plus real-world case studies scattered throughout, this text is ideal for advanced undergraduate and graduate course use.

Key Features and Highlights

- Introduces the concepts of process intensification for chemical engineering students and newcomers to green chemistry
- Draws upon the extensive teaching experience of the author team to provide clear learning outcomes
- Includes real world case studies to help students solidify their understanding

Brief Contents

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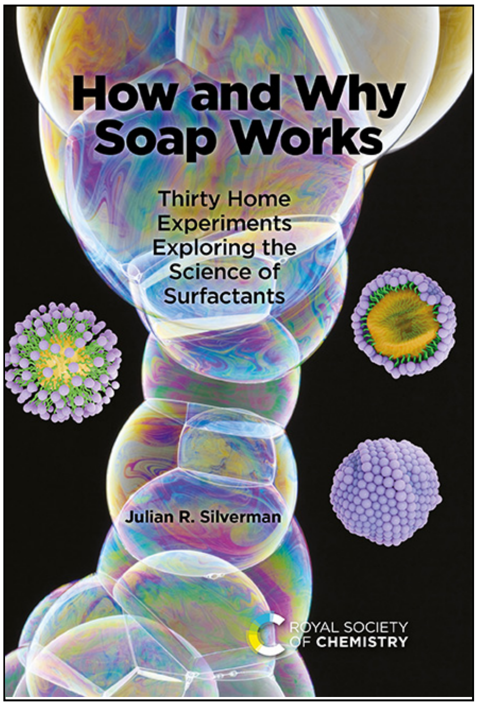

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BIC:	PN, WJH, WF
THEMA:	PN, WJH, WF
BISAC:	SCI013000, CRA000000, HEA003000

How and Why Soap Works

Thirty Home Experiments Exploring the Science of Surfactants

Julian R Silverman Fashion Institute of Technology, USA

Synopsis

Every day we wash, but have you ever wondered how soap gets us clean? Soap has been used for centuries worldwide and is key to health and hygiene. But how exactly does soap work? What is in it and how do the ingredients come together to make something that can remove dirt and bacteria but be safe for our skin? Using hands-on demonstrations readers can perform at home, this book explores the fundamental science of soap.

Key Features and Highlights

- Introduces readers to the scientific wonders of an everyday product, soap.
- Provides hands-on experiments readers can try at home.
- Encourages readers to form and test their own questions, helping them to appreciate. the scientific method

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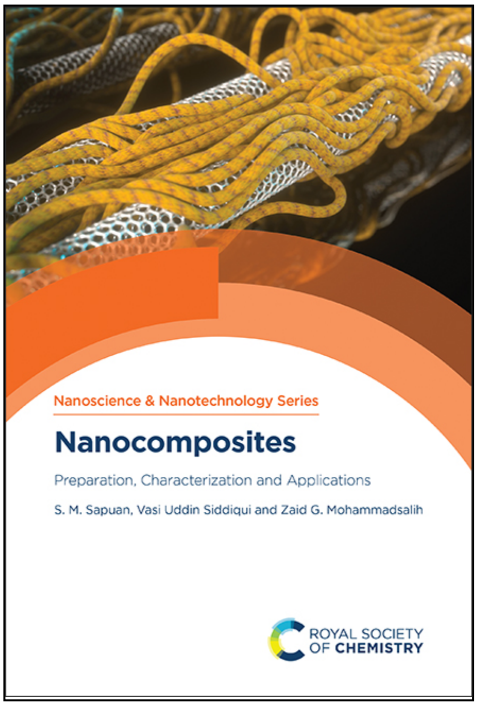

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BIC:	TBN, PD, TGM, PNK
THEMA:	PDT, TGM, PNK
BISAC:	SCI050000,
Series:	Nanoscience & Nanotechnology Series Volume 73

Nanocomposites

Preparation, Characterization and Applications

S M Sapuan Universiti Putra Malaysia, Malaysia
Vasi Uddin Siddiqui Universiti Putra Malaysia, Malaysia
Zaid G Mohammadsalih University of Technology, Iraq

Synopsis

Nanocomposites have drawn a lot of interest because of their distinctive qualities and diverse range of uses in industries as diverse as health, electronics, energy, and more. With a focus on showing cutting-edge research and new trends, the book attempts to showcase the most recent developments in the industry by covering a wide variety of topics, with individual chapters devoted to distinct types of nanocomposite materials, including those based on clay, carbon derivatives, and inorganic-based materials.

Brief Contents

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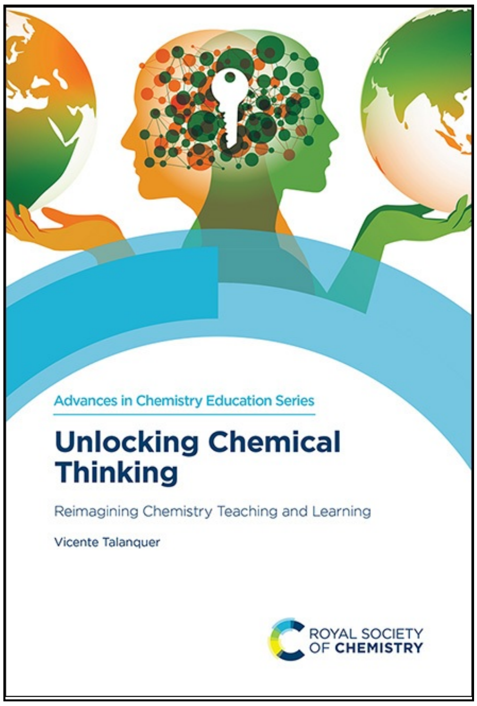

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Target Audience:	Professional and scholarly
Size:	234 x 156 (Royal 8vo) mm
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BIC:	JNU, PN
THEMA:	JNU, PN
BISAC:	EDU029000, SCI013000
Series:	Advances in Chemistry Education Series Volume 15

Unlocking Chemical Thinking

Reimagining Chemistry Teaching and Learning

Vicente Talanquer University of Arizona, USA

Synopsis

Traditional approaches to chemistry education emphasize the memorization of disconnected facts over the development of meaningful understanding and reasoning. **Unlocking Chemical Thinking** advocates for a shift toward teaching centered on central disciplinary ideas integrated with authentic chemical practices to encourage students to think and solve problems in relevant contexts. Drawing on current developments in science and chemistry education research, the book highlights the importance of fostering multiple modes of reasoning in chemistry to support more effective learning progressions.

Key Features and Highlights

- Introduces an original framework for understanding how chemists think and how students can be supported in developing similar reasoning skills
- Connects theory and classroom practice, encouraging educators to rethink their assumptions and apply evidence-based insights
- Synthesises personal narrative with evidence-based research to provide a relevant and accessible resource
- Advocates for chemistry education that is inclusive, socially relevant, and connected to global challenges

Brief Contents

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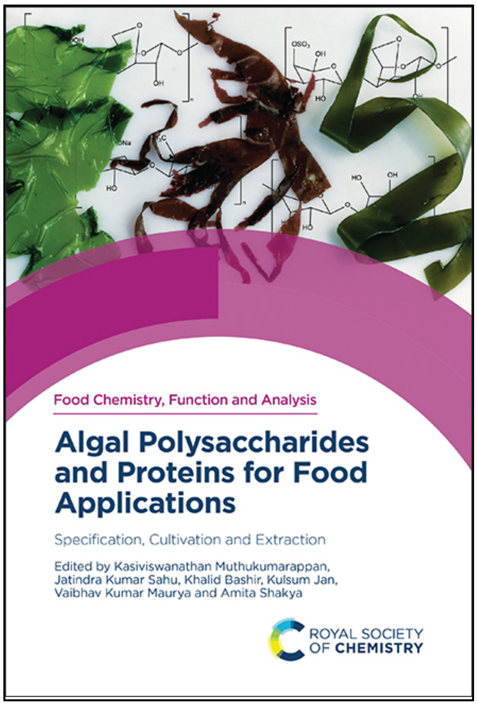

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THEMA:	PND, TDCT2, PSPA
BISAC:	TEC012010, TEC012020
Series:	Food Chemistry, Function and Analysis Volume 47

Algal Polysaccharides and Proteins for Food Applications

Specification, Cultivation and Extraction

Kasiviswanathan Muthukumarappan South Dakota State University, USA
Jatindra Kumar Sahu Indian Institute of Technology Delhi, India
Khalid Bashir Jamia Hamdard, India
Kulsum Jan Jamia Hamdard, India
Vaibhav Kumar Maurya National Institute for Food Technology Entrepreneurship and Management, India
Amita Shakya National Institute for Food Technology Entrepreneurship and Management, India

Synopsis

Seaweeds have had a role in the human diet, particularly in Japan, since 600 BC but still the use of algae for food applications is not widely adopted. This is due to a lack of available systematic information on algae and its various food applications. This book provides details on algae applications for students, food technologists and developers in the food industry who will all gain a better understanding of how to exploit the untapped potential of algae in food processes.

Key Features and Highlights

- Explores algae for use in future foods offering a rich source of proteins, vitamins, minerals, and bioactive compounds with proven health benefits.
- Provides accessible information on algae's potential in processing, empowering students, technologists, and developers to explore this underutilized resource.
- Encourages exploration of algae as a sustainable food option.

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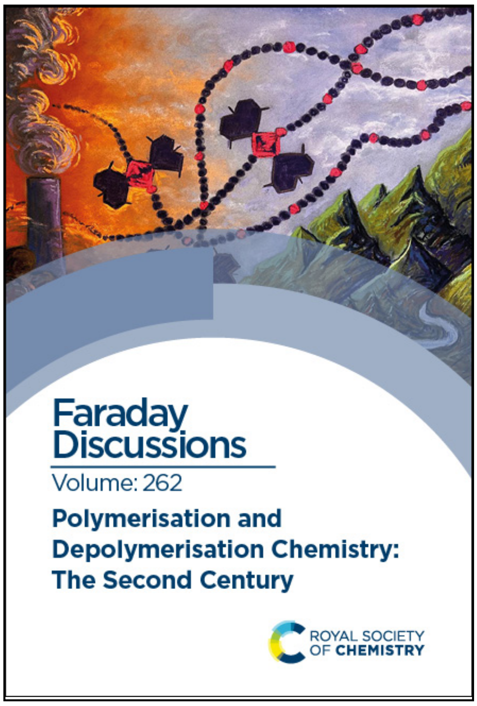

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Price:	£170.00 | $235.00 | €213.00
Publication Date:	16 February 2026
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Size:	234 x 156 (Royal 8vo) mm
Pages:	400
BIC:	PNNP, RNU
THEMA:	PNNP, RNU
BISAC:	SCI013040, BUS072000
Series:	Faraday Discussions

Polymerisation and Depolymerisation

Faraday Discussion

Synopsis

This Faraday Discussion focuses on the scientific questions, challenges and areas for future development to advance polymer science. It comprises the following interrelated themes:

- utilisation of novel feedstocks and reduction in greenhouse gas emissions in making polymers
- methods to control monomer sequence and polymer architectures for function and application
- polymerisation processes, including data-driven design and manufacturing processes
- recycling and depolymerisation methods, including biodegradation, to improve circularity

Novel feedstocks

This section focuses on the chemistry and processes to make monomers and to functionalise natural biopolymers. It includes papers on the use and benefits for biomass derived monomers, such as those from carbohydrates, triglycerides, lignin and terpenes, with a particular focus on use of co-products and wastes in polymer production.

Catalysis

This section investigates how catalysis can be used to make polymerisation processes more efficient and more sustainable, and to control polymer sequences, stereo- and regiochemistry, so as to enable innovative material and properties. Discussion topics include organocatalysis, metal-based catalysis and heterogeneous catalysis, the synthesis of novel catalytic systems, the elucidation of catalytic reactions using experimental and computational methods (including *in situ* reaction monitoring), and the impact of residual catalytic species on polymer properties.

Polymerisation processes and computational methods to control structure

This section discusses how to regulate, control and effect control over polymer sequences, structures, architectures and molar mass distributions by using external stimuli and process control. The section also covers how data and machine learning-driven approaches can help to improve polymerisation processes. The types of chemistry discussed include ‘triggers/switches and stimuli’, methods to control molar mass distributions, polymer syntheses in flow, and computational approaches to optimise structures and performances.

Closing the loop – the chemistry of depolymerisation, polymer recycling and environmental degradation

This section examines the chemistry and fundamental science challenges associated with the different end-life options for polymers. Discussion topics include chemical recycling, designing polymer structures for efficient mechanical recycling, polymer upcycling and re-purposing, depolymerisation kinetics/thermodynamics and mechanisms, depolymerisation catalysis, polymer composting and biodegradation. The environmental chemistry of polymers is also discussed. Future opportunities to combine effective polymerisation and depolymerisation strategies into the design of polymer structures are at the heart of this section and the associated discussions.

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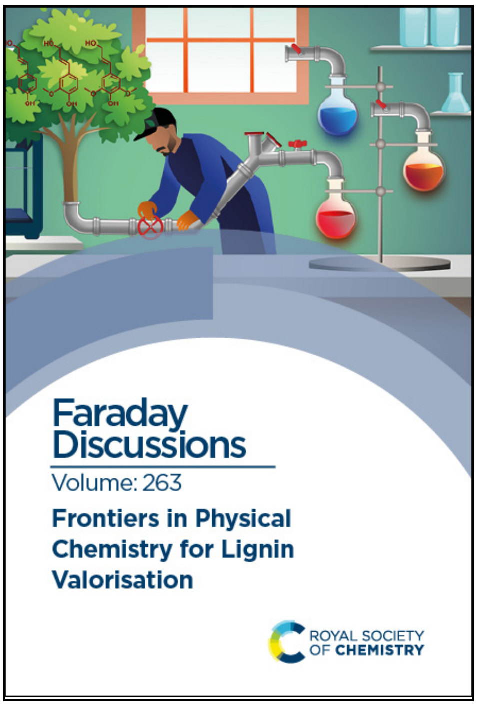

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BIC:	TGM, PNNP, RNU
THEMA:	TGM, PNNP, RNU
BISAC:	TEC021000, SCI013040, BUS072000
Series:	Faraday Discussions Volume 263

Frontiers in Physical Chemistry for Lignin Valorisation

Faraday Discussion 263

Synopsis

New concepts for converting lignins into valuable products are at the core of today's most important scientific advances in biorefineries. Despite the fresh momentum in lignin valorisation, extensive efforts are still needed to unravel its structural complexity and rationalise the relationship between the structure of lignin and their physical-chemical properties to unlock lignin's potential in industrial applications. This Faraday Discussion focuses on the latest developments in lignin valorisation and aims to further the understanding of the physical–chemical processes that are the basis for lignin extraction, stabilisation and degradation by bringing together researchers at the forefront of physical-chemical research.

Brief Contents

- Native lignin solvation and extraction
- Lignin stabilisation and degradation in lignocellulosic fractionation processes
- Commercially available technical lignins
  Strategies for compatibilisation of extracted lignin properties with commercial applications

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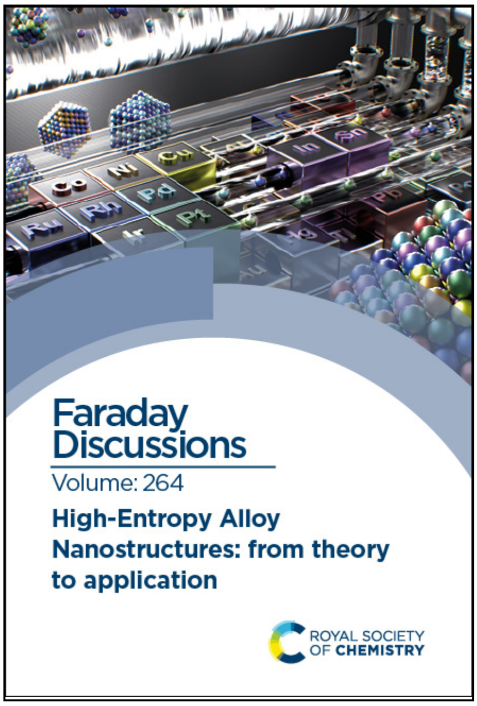

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THEMA:	TBN, TDPM
BISAC:	TEC027000, TEC023000
Series:	Faraday Discussions Volume 264

High-entropy Alloy Nanostructures

Faraday Discussion 264

Synopsis

This Faraday Discussion brings together pioneers within this area in a cross-disciplinary manner by providing a platform to explore possible solutions to these challenges, while establishing a fundamental understanding of these novel materials. The synergy of combining theoretical and experimental experts to address these key questions will be brought out through the following four key sections.

Brief Contents

- Synthesizing high-entropy alloy nanoparticles
- Advanced structural characterization of high-entropy alloy nanostructures
- Application of high-entropy alloy nanostructures in electrocatalysis
- Magnetic properties of high-entropy alloy nanostructures

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