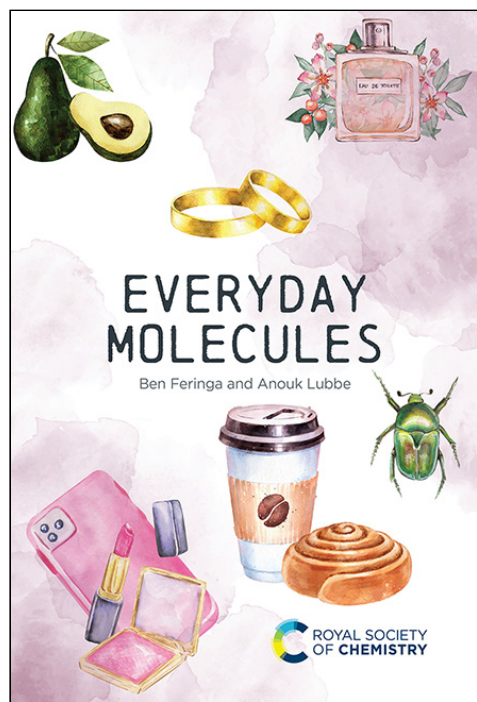


Advance Book Information



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Publisher: Royal Society of Chemistry
ISBN: HB 9781837074334
PDF 9781837074341
EPUB 9781837074358
Price: £22.00 | \$28.00 | €25.00
Publication Date: 01 March 2027
Target Audience: General/trade, College/higher education
Size: 228mm x 152mm
Pages: 254
BIC: PDZ, PN, PDR
THEMA: PDZ, PN, PDR
BISAC: SCI013000, TEC009010, TEC052000, SCI075000

Everyday Molecules

Ben Feringa University of Groningen, Netherlands

Anouk Lubbe University of Groningen, The Netherlands

Synopsis

On a spring morning scented with coffee and flowers, chemistry gets to work. *Everyday Molecules* reveals how the smallest structures shape familiar moments, from waking up to watching sunlight on a poppy. Chemists Ben Feringa and Anouk Lubbe trace daily experiences back to the molecules behind them, showing how a handful of elements creates astonishing variety. With clarity and curiosity, the book invites readers to see the world anew and discover the hidden chemistry woven through ordinary life.

Key Features and Highlights

- The book connects molecules to familiar experiences—coffee, bananas, toothpaste—making chemistry accessible and relatable.
- From Reinitzer's liquid crystals to industrial ethylene, readers learn how accidental findings and scientific breakthroughs shape modern life.
- Beyond facts, the narrative inspires awe at the hidden beauty of molecules and their role in everything from medicine to technology.

Brief Contents

- Fruit
- Teeth
- Coffee and Tea
- Soft Drinks
- Cars
- Insects
- Light
- Lipstick
- Sport
- Smartphones
- Agriculture
- Textiles
- Sugar
- Water
- E Numbers
- Medicines
- The Human Body
- Cooking
- Cigarettes
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- Smell
- Cleaning
- Our Molecular World
- A Little Bit of Background

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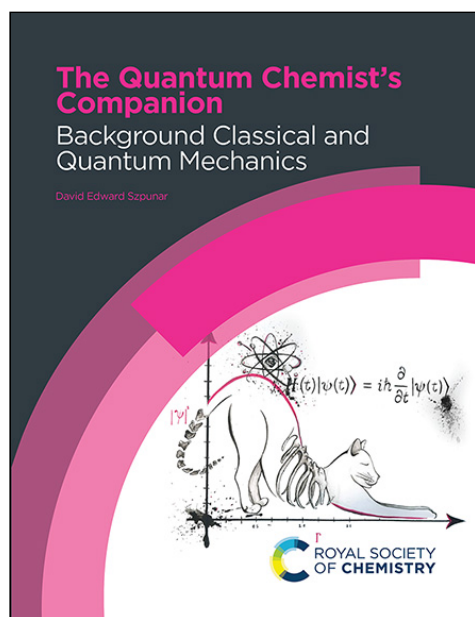
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Publisher: Royal Society of Chemistry

ISBN: HB 9781837072644

PDF 9781837072651

EPUB 9781837072668

Price: £96.99 | \$124.50 | €112.50

Publication Date: 08 March 2027

Date:

Target: College/higher education,

Audience: Professional and scholarly

Size: Crown

Pages: 366

BIC: PNRP

THEMA: PNRP, 4TC, 4CT

BISAC: SCI013050

The Quantum Chemist's Companion

Background Classical and Quantum Mechanics

David Edward Szpunar The University of Wisconsin-Sevens Point, USA

Synopsis

The Quantum Chemist's Companion: Background Classical and Quantum Mechanics is the first part of a comprehensive two volume reference designed for students and researchers seeking a deeper, more intuitive understanding of quantum chemistry. Filling a long standing gap in the traditional chemistry curriculum, this volume builds the essential bridge between classical mechanics, quantum mechanics and the mathematical tools that underpin them. Ideal as both a course companion and a long-term desk reference, this book brings clarity to concepts that often challenge chemists especially those rarely explored in standard chemistry training.

Key Features and Highlights

- Provides a self-contained reference book which will serve as a companion to standard quantum chemistry textbooks for those seeking advanced physical chemistry.
- Is written in a style that is friendly to those intimidated by such a complex subject.
- Covers quantum mechanics from the physics perspective and therefore necessitates the state vector approach to quantum mechanics, which is rarely covered in chemistry texts.

Brief Contents

- The Lagrangian and Hamiltonian Formalisms of Classical Mechanics
- Quantum Mechanics Background
- Generalized Quantities: Momentum and Force
- Rotational Motion
- The Harmonic Oscillator
- Configuration Space and Phase Space
- Resonance
- Waves
- Electromagnetism
- Some Important Results from the Special Theory of Relativity
- Dirac Notation
- Important Systems
- Matrix Elements and Diagonalizing the Hamiltonian
- Angular Momentum in Quantum Mechanics
- Spin Angular Momentum
- An Introduction to Relativistic Quantum Mechanics
- Differentiation and Integration
- Series
- Matrices and Linear Algebra
- Vectors
- Operators
- A Brief Introduction to Probability and Statistics
- Special Functions
- Alternate Coordinate Systems

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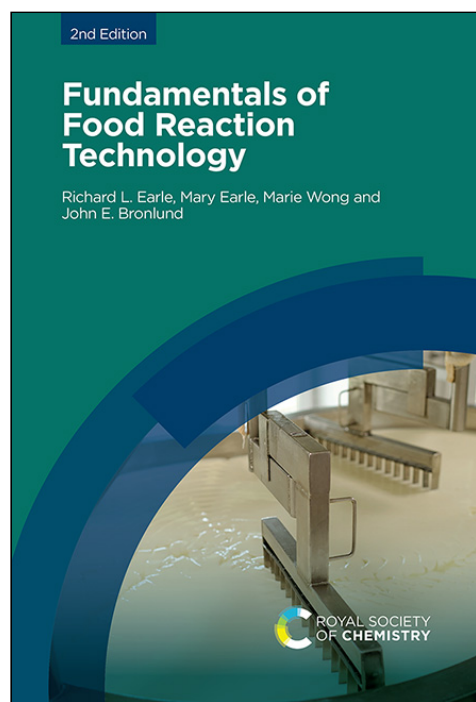
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Fundamentals of Food Reaction Technology

Richard L Earle Massey University, New Zealand

Mary Earle Massey University, New Zealand

Marie Wong Massey University, New Zealand

John E Bronlund Fonterra Brands and Massey University, New Zealand

Synopsis

This updated second edition offers an accessible introduction to reaction engineering in food and biological processing, tailored for professionals and advanced students. With two new chapters covering biological reactions and integrating transport phenomena with reaction engineering, it expands the scope of the original text to reflect the evolving challenges and innovations in food technology. It explores the rate and control of chemical changes during processing. With unworked problems added for teaching and self-study, it is an essential resource for those seeking to deepen their grasp of food reaction engineering and contribute to the future of sustainable, high-quality food manufacturing.

Key Features and Highlights

- Expands foundational knowledge with new chapters on enzymatic and fermentation systems, integrating transport phenomena to address modern challenges in food and biological processing.
- Features cutting-edge technologies like high-pressure processing, pulsed electric fields and ultrasound, while emphasizing sustainability, shelf life and environmental impact.
- Equips readers with quantitative tools and practical insights - from microbial control to bioreactor design - to innovate and optimize food manufacturing processes.

Brief Contents

- Important Problems in Food Processing
- Product Changes During Processing
- Processing Outcomes
- Achieving Better Food Products
- Processes Involving Biological Reactions
- Reactions Within Processes
- Broadening the Net

Publisher: Royal Society of Chemistry

ISBN: HB 9781837675944
EPUB 9781837675951
PDF 9781837675968

Price: £79.99 | \$102.50 | €92.99

Publication Date: 17 February 2027

Date:

Target Audience: Professional and scholarly

Audience:

Size: 234 x 156 (Royal 8vo) mm

Pages: 290

BIC: TDCT

THEMA: TDCT, PND

BISAC: TEC012010TEC012020

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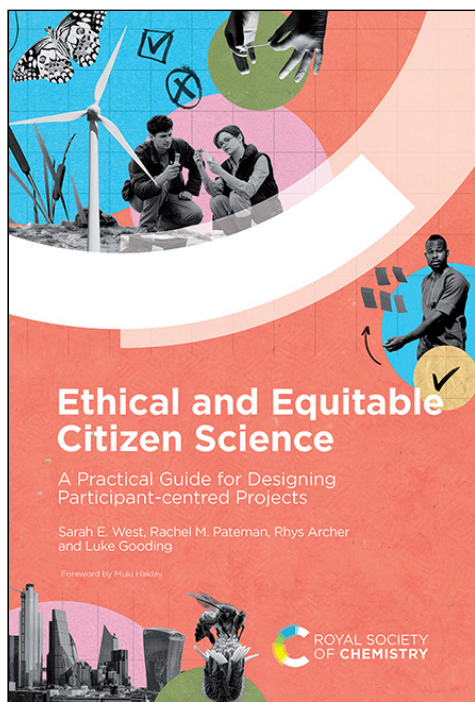
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Advance Book Information



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Ethical and Equitable Citizen Science

A Practical Guide for Designing Participant-centred Projects

Sarah E West University of York, UK

Rachel M Pateman University of York, UK

Rhys Archer University of York, UK

Luke Gooding University of York, UK

Synopsis

Making use of volunteer participants (or citizen scientists) in research not only increases our capacity to collect valuable data but also help us engage with the people the research is likely to impact. Involving volunteers in our research can help increase the wider public understanding of the research process as well as giving communities a sense of ownership of and connection to the research. This practical, step-by-step book will guide you using case studies from around the world and drawing on the authors' extensive experience. With tips on recruitment, retention and different methods of engagement this book will be a great resource for anyone working in environmental science or other areas where a citizen science approach could provide useful data.

Key Features and Highlights

- Offers a practical step-by-step guide to designing, running and evaluating citizen science projects
- Draws on case studies from around the world
- Provides a focus on the considerations of ethics and equity
- Written by a team with many years of practical experience in the field

Brief Contents

- Introduction to Ethical and Equitable Citizen Science
- Intentional Design of Equitable Citizen Science
- Navigating the Ethics of Citizen Science
- Building a Team to Deliver Participant-centred Citizen Science
- Exploring Who Participates in Citizen Science
- Inclusive Recruitment in Citizen Science
- Ways to Engage Participants in Citizen Science
- Collecting and Managing Citizen Science Data Ethically
- Using Technology in Ethical and Equitable Citizen Science
- Inclusive Online Working in Citizen Science
- Engaging Young People in Participant-centred Citizen Science
- Sharing Citizen Science Findings
- Evaluation of Citizen Science
- Legacy Planning for Participant-centred Citizen Science
- Reflective Practice in Citizen Science

Publisher: Royal Society of Chemistry

ISBN: HB 9781837675715

EPUB 9781837678426

PDF 9781837678419

Price: £129.00 | \$180.00 | €160.00

Publication Date: 22 March 2027

Date:

Target Audience: College/higher education,

Professional and scholarly

Size: 234 x 156 (Royal 8vo) mm

Pages: 375

BIC: PDR, GPS

THEMA: PDM, PDR, GPS, JNFK

BISAC: SCI043000, SCI101000



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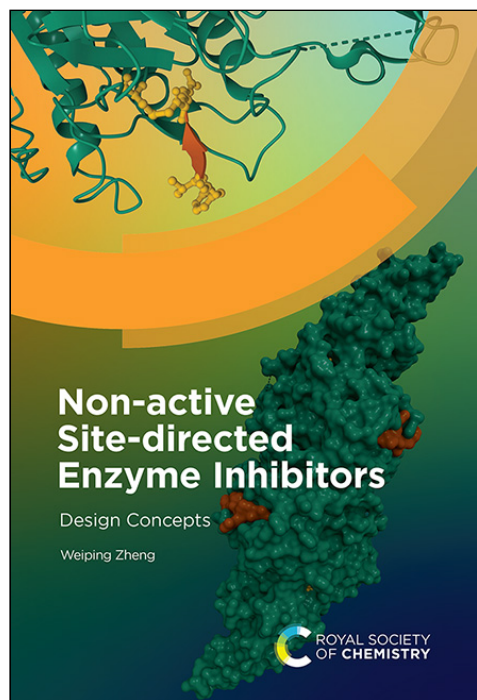
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Non-active Site-directed Enzyme Inhibitors

Design Concepts

Weiping Zheng Jiangsu University, China

Synopsis

This book provides a concise yet comprehensive guide to designing non-active site-directed enzyme inhibitors, with a focus on allosteric approaches. It translates key concepts into practical strategies applicable across diverse enzymatic systems and therapeutic areas. Ideal for researchers and advanced students, it offers an accessible pathway to understanding and efficiently developing promising inhibitors for modern biochemical and pharmaceutical challenges.

Brief Contents

- Allosteric Regulation of Enzymatic Reactions
- Allosteric Site-directed Enzyme Inhibitor Discovery
- Fragment-based Design Engaging Enzyme Allosteric Sites
- Allosteric Site-directed (Photo)affinity Enzyme Labels
- Allosteric Site-directed Inhibitor-derived Enzyme Degradation Constructs

Publisher: Royal Society of Chemistry

ISBN: HB 9781837674114
EPUB 9781837070152
PDF 9781837070145

Price: £125.00 | \$175.00 | €156.00

Publication Date: 08 March 2027

Date:

Target: College/higher education,

Audience: Professional and scholarly

Size: 234 x 156 (Royal 8vo) mm

Pages: 222

BIC: PSBC, PSBZ, PSD

THEMA: PSB, PNB, PSD

BISAC: SCI007000, SCI013020,
SCI049000

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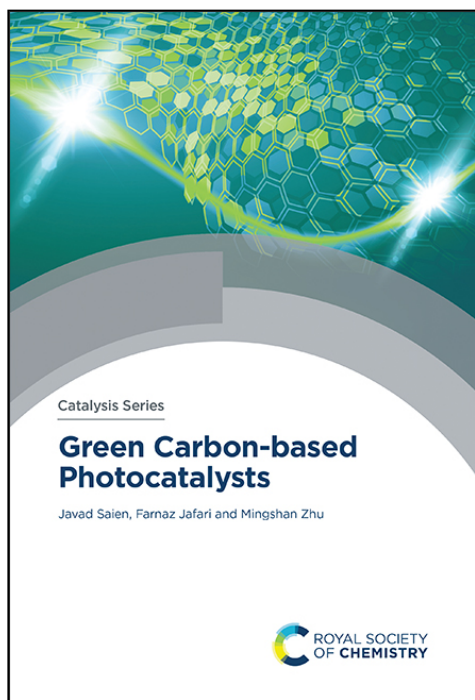
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Green Carbon-based Photocatalysts

Javad Saïen Bu-Ali Sina University, Iran

Farnaz Jafari Bu-Ali Sina University, Iran

Mingshan Zhu Jinan University, China

Synopsis

Photocatalysis uses clean and renewable solar light to power chemical reactions that include approaches for solving environmental issues such as energy generation or pollutant degradation. Carbon-based photocatalysts offer even better sustainability prospects as carbon is abundant, inexpensive, benign and chemically stable. Describing the fundamental photocatalytic science and technology of carbon-based photocatalysts, as well as applications for both the pollutant degradation and energy conversion this book is an interesting read for catalysis researchers, environmental chemists and energy scientists alike.

Key Features and Highlights

- Introduces the fundamental science and technology of carbon-based photocatalysts
- Explores applications for pollutant degradation and energy conversion
- Includes green approaches to synthesis of carbon-based photocatalysts

Brief Contents

- An Introduction to Artificial and Solar Light Irradiation
- Photocatalysis Principals and Photocatalysts
- Photocatalyst Modification Strategies
- Carbon-based Photocatalysts and Their Characteristics
- Green Synthesis of Carbon-based Photocatalysts
- Carbon-based Photocatalysts in Degradation of Organic Pollutants
- Carbon-based Photocatalysts in Activating Oxidants
- Carbon-based Photocatalysts for Water Splitting
- Photocatalytic Reduction of Carbon Dioxide
- Photoreactor Design and Kinetic Study

Publisher: Royal Society of Chemistry

ISBN: HB 9781837673933
EPUB 9781837676316
PDF 9781837676309

Price: £179.00 | \$250.00 | €225.00

Publication Date: 22 February 2027

Target Audience: Professional and scholarly

Size: 234 x 156 (Royal 8vo) mm

Pages: 324

BIC: PNRD, RNU

THEMA: PNRD, RNU

BISAC: SCI013050

Series: Catalysis Series Volume 51

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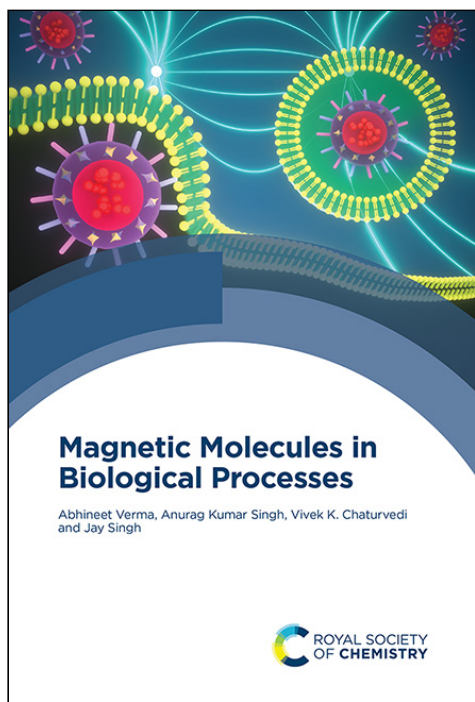
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Publisher: Royal Society of Chemistry

ISBN: HB 9781837675548
EPUB 9781837679034
PDF 9781837679027

Price: £209.00 | \$290.00 | €260.00

Publication Date: 01 March 2027

Date:

Target Audience: Professional and scholarly

Audience:

Size: 234 x 156 (Royal 8vo) mm

Pages: 494

BIC: PHK, PNRH, PSB

THEMA: PHK, PNRH, PSB

BISAC: SCI038000, SCI007000,
SCI013050

Magnetic Molecules in Biological Processes

Abhineet Verma Malaviya National Institute of Technology, India

Anurag Kumar Singh Banaras Hindu University, India

Vivek K Chaturvedi Harcourt Butler Technical University, India

Jay Singh Banaras Hindu University, India

Key Features and Highlights

- Integrates molecular magnetism with biological systems, offering a rigorous interdisciplinary framework for applications in sensing, imaging, and targeted therapeutics.
- Presents advanced methodologies for the design, synthesis, and characterization of magnetic molecules, with emphasis on their behaviour in biological environments.
- Includes forward-looking chapters on emerging trends and global perspectives, equipping researchers with strategic insights into future directions in magnetobiology.

Brief Contents

- Introduction – Biology and Molecular Magnetism
- Design and Synthesis: Tailoring Magnetic Properties
- Characterization Techniques for Magnetic Molecules: Unveiling the Magnetic World in Biology
- Magnetic Interactions in Biological Environments
- Applications in Biological Sensing
- Magnetic Molecules in Bioimaging
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- International Perspectives on Molecular Magnetism
- Conclusion and Outlook

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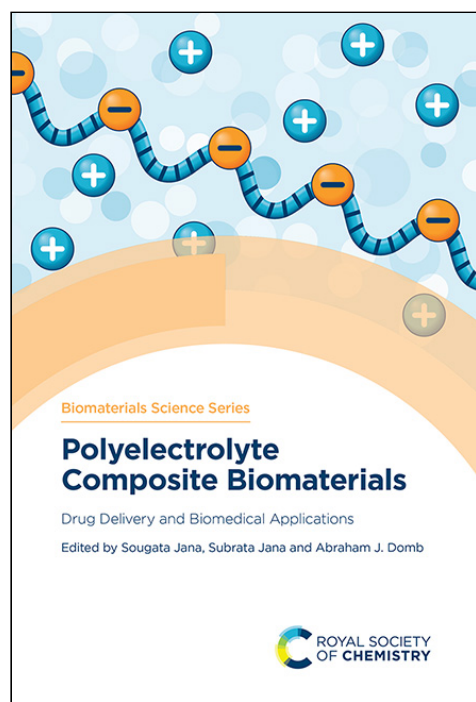
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Polyelectrolyte Composite Biomaterials

Drug Delivery and Biomedical Applications

Sougata Jana Directorate of Health Services, Kolkata, India

Subrata Jana Indira Gandhi National Tribal University, India

Abraham J Domb Hebrew University of Jerusalem, Israel

Synopsis

Explore the transformative role of polyelectrolytes in modern medicine. This book covers cutting-edge strategies for drug delivery, cancer therapy, wound healing, and vaccine development, alongside innovations in 3D bioprinting and tissue engineering. With contributions from global experts, it combines fundamental science with practical applications, addressing regulatory and industrial perspectives. A must-have resource for researchers and professionals in biomaterials, pharmaceuticals, and biomedical engineering seeking to advance next-generation therapeutic solutions.

Key Features and Highlights

- Edited by active researchers in the field, with contributions from renowned chemists, biologists, and engineers from around the world.
- Presents cutting-edge developments in the chemistry of polyelectrolytes and their applications in biomedical engineering and drug delivery
- A reference for scientists and researchers, inspiring innovation in advanced biomaterials in the field of pharmaceuticals, biomedical science and engineering, and material science.

Brief Contents

- Introduction to Polyelectrolyte Composites: Preparation, Characterization and Biomedical Approaches
- Alginate-based Polyelectrolyte Complexes in Drug Delivery Applications
- Chitosan-based Polyelectrolyte Complexes in Drug Delivery
- Inorganic Compound-based Polyelectrolyte Complexes in Drug Delivery
- Polyelectrolyte Composite Hydrogels in Drug Delivery Applications
- Crosslinked Polyelectrolyte Composites in Drug Delivery Applications
- pH Responsive Polyelectrolyte Composites in Drug Delivery
- Design and Strategies of Polyelectrolyte Complexes in Cancer Therapy
- Grafted Polyelectrolyte Composites in Drug Delivery and Biomedical Aspects
- Polyelectrolyte Complexes in Wound Healing Applications
- Polyelectrolyte Complexes in Gene Delivery
- Polyelectrolyte Complexes for Vaccine Delivery
- Smart Antibacterial Polycations: A Multidisciplinary Approach to Tackling Multidrug Resistance
- Regulatory and Safety Aspects of Polyelectrolyte Biomaterials
- Industrial and Commercial Applications of Polyelectrolyte Biomaterials

Publisher: Royal Society of Chemistry

ISBN: HB 9781837071197
EPUB 9781837071210
PDF 9781837071203

Price: £219.00 | \$305.00 | €275.00

Publication Date: 08 March 2027

Date:

Target Audience: Professional and scholarly

Audience:

Size: 234 x 156 (Royal 8vo) mm

Pages: 574

BIC: TGB, TCB, PN, MF, TDCW

THEMA: TGML, TDCW, PNB

BISAC: TEC009010, SCI010000,
TEC021000, SCI013020,
TEC072000

Series: Biomaterials Science Series
Volume 25

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Drug Discovery, Development and Delivery (CTD4-2025)

Buchi N Nalluri KL University, College of Pharmacy, India

G Chakravarthi KL University, College of Pharmacy, India

Manikanta Murahari MS Ramaiah University of Applied Sciences, India

Shailendra Singh KL University, College of Pharmacy, India

Synopsis

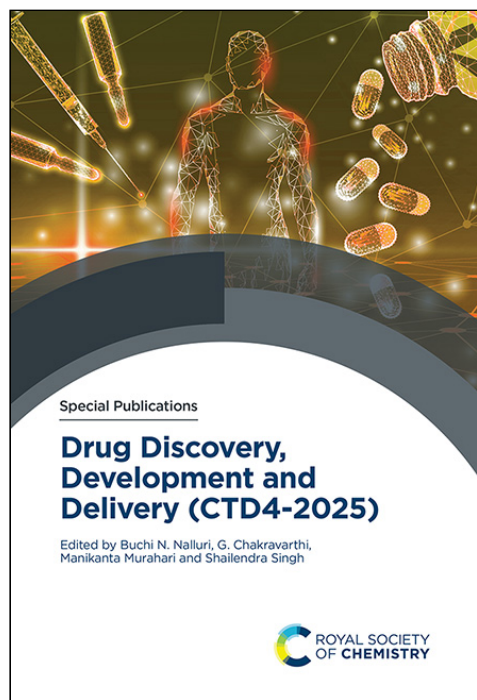
Explore the cutting edge of pharmaceutical innovation in this proceedings volume which brings together full-length research articles that spotlight the latest advancements across the dynamic landscape of drug discovery and development. From computational tools and green chemistry to breakthroughs in natural products, novel drug delivery systems, pharmacology, toxicology and biotechnology, this collection captures the interdisciplinary spirit of the CTD4-2025 conference. Contributions span a wide array of specialisations within pharmaceutical and life sciences, reflecting the vibrant exchange of ideas that took place among students, young researchers and leading experts from academia and industry.

Key Features and Highlights

- Provides an up to date account of critical challenges and emerging paradigms in drug designing, molecular targets, drug delivery, drug resistance and personalized medicine as full-length research articles.
- Provides a version of record of the proceedings of the conference CTD4-2025.
- Ensures continuity with the Royal Society of Chemistry providing a sound literature record.

Brief Contents

- Part 1: Computational design of small molecules for potential targets
- Part 2: Development and validation of drugs and dosage forms by analytical and bioanalytical techniques
- Part 3: Novel drug delivery systems
- Part 4: Phytochemical screening and biological evaluation of Indian medicinal plant
- Part 5: Clinical case studies
- Subject index



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Publisher: Royal Society of Chemistry

ISBN: HB 9781837071548

PDF 9781837071555

EPUB 9781837071562

Price: £149.00 | \$210.00 | €185.00

Publication 16 November 2026

Date:

Target Professional and scholarly

Audience:

Size: 234 x 156 (Royal 8vo) mm

Pages: 664

BIC: MMG, PNN, PSB

THEMA: MKG, PNN, PSB

BISAC: MED071000, SCI013040,
SCI007000

Series: Special Publications Volume
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Nuclear Magnetic Resonance

Volume 52

Paul Hodgkinson Durham University, UK

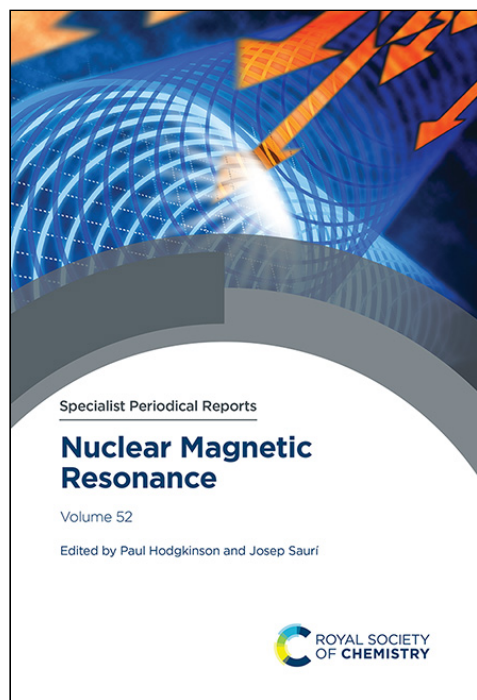
Josep Saurí Universitat Autònoma de Barcelona, Spain

Synopsis

A concise and authoritative guide to the latest developments in nuclear magnetic resonance (NMR), this volume brings together expert perspectives on both foundational theory and cutting-edge applications. Covering topics from nuclear shielding and spin-spin coupling to biomolecular structure, soft matter and medical research, it highlights the remarkable breadth of modern NMR science. Ideal for newcomers and experienced practitioners alike, this essential reference provides a clear roadmap through one of the most dynamic fields in contemporary research.

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
- NMR in living systems



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Publisher: Royal Society of Chemistry

ISBN: HB 9781837073467

PDF 9781837073474

EPUB 9781837073481

Price: £314.95 | \$440.00 | €395.00

Publication Date: 07 December 2026

Date:

Target Audience: Professional and scholarly

Audience:

Size: 234 x 156 (Royal 8vo) mm

Pages: 268

BIC: PNFR

THEMA: PNFR

BISAC: SCI013010

Series: Specialist Periodical Reports -
Nuclear Magnetic Resonance
Volume 52

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Sustainable Chemistry of Electrofuels and Electrochemicals

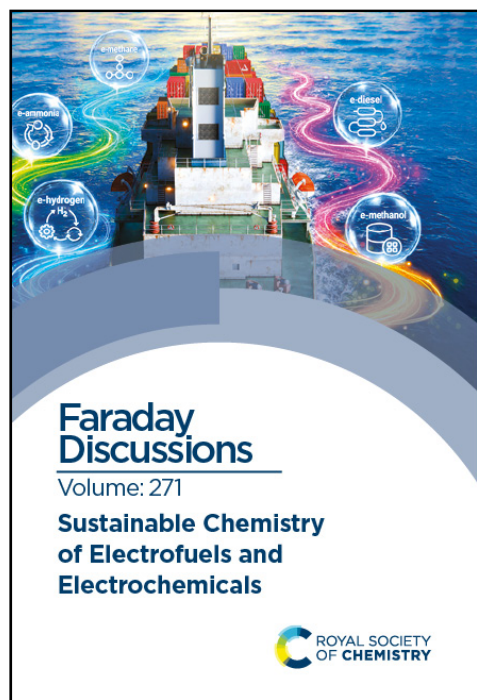
Faraday Discussion 271

Synopsis

With rising energy costs and growing demand for sustainable products to meet net-zero targets, the chemicals sector must find a way of maintaining competitiveness, socio-economic growth, and security of supply without fossil fuels. Power-to-X (PtX) technologies, which use renewable energy to produce hydrogen via electrolysis and convert this into electrofuels and electrochemicals, is a promising solution. This volume brings together internationally leading researchers in the field to explore and exchange ideas on how to unlock PtX solutions and address the challenges that remain in the quest to achieve net-zero chemical manufacturing.

Brief Contents

- Power to hydrogen
- Power to hydrocarbons
- Power to ammonia
- Sustainability challenges of e-fuels and e-chemicals



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Publisher: Royal Society of Chemistry
ISBN: HB 9781837073818
Price: £170.00 | \$235.00 | €213.00
Publication 08 March 2027
Date:
Target Professional and scholarly
Audience:
Size: 234 x 156 (Royal 8vo) mm
Pages: 400
BIC: TDC, THF, PNRH, RNU
THEMA: TDCF, PNRH, RNU
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BUS072000, TEC031010
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