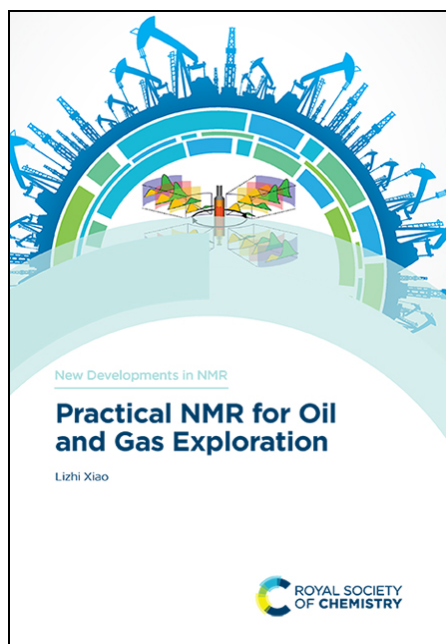


Advance Book Information



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Series: New Developments in NMR

ISSN: 2044-253X

Publisher: Royal Society of Chemistry

ISBN: 978-1-84973-916-0

Price: £199.00 | \$279.00

Publishing date: 12/06/2023

Target Audience: Professional and scholarly

Format: Hardback

Size: 234 x 156 (Royal 8vo) mm

Pages: 538

BIC: PNFR, TQ

THEMA: PNFR, TQ

BISAC: SC1013010

Practical NMR for Oil and Gas Exploration

Lizhi Xiao China University of Petroleum, Beijing, China

Synopsis

Describing comprehensively the development and applications of NMR to oil and gas exploration, this book brings the literature up to date in response to its rapid development over the past two decades. Outlining new methodologies, it provides a thorough and comprehensive document enabling a better understanding of the basics of NMR physics, petrophysics, downhole tools and raw data. This book is designed to meet the needs of the community and encourage applications in low field NMR. The author has more than 30 years experience in this burning and important topic.

Brief Contents

- Overview of Borehole NMR in Oil and Applications
- Fundamentals of NMR Physics
- Fundamentals of NMR Petrophysics and Fluids Typing
- Principles of Borehole NMR Tools
- Fundamentals of Borehole NMR Data Processing and Inversion
- Downhole NMR Stand-alone Analysis
- Integration of NMR With Other Logs
- NMR Log Quality Control
- Borehole NMR Job Planning
- Core Analysis Supports Borehole NMR Applications

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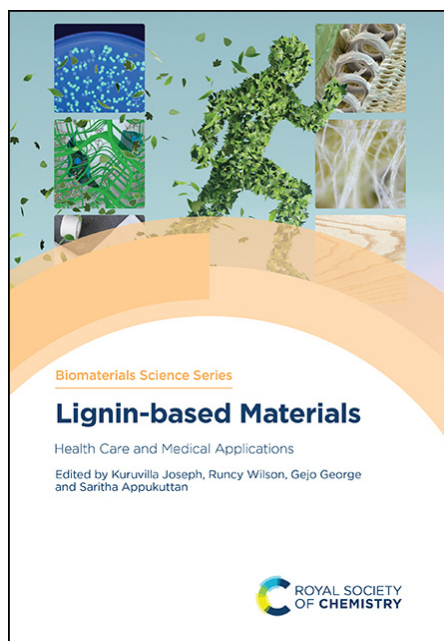
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Series: Biomaterials Science Series
ISSN: 2397-1401
Publisher: Royal Society of Chemistry
ISBN: 978-1-83916-535-1
Price: £149.00 | \$205.00
Publishing date: 26/05/2023
Target Audience: Professional and scholarly
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 315
BIC: TCB, TDCB, TDCP, TGB, TGM
THEMA: TGML, TGMP
BISAC: TEC009010, TEC021000

Lignin-based Materials Health Care and Medical Applications

Kuruvilla Joseph Indian Institute of Space Science and Technology (IIST), India
Runcy Wilson St Cyrils College, India
Gejo George St. Berchmans College, India
Saritha Appukuttan Amrita Vishwa Vidyapeetham, India

Synopsis

The chemistry of lignin, characterization, fabrication and properties of lignin-based composites with different matrices (thermosets, thermoplastics, elastomers etc.) are covered in this book. The reader will learn how these materials are used in medical applications, covering drug delivery, wound dressing, tissue engineering, imaging *etc.* Providing a neat overview of the current research for the biomaterials science community, this book is a one-stop resource for researchers and practitioners on lignin based biomaterials.

Brief Contents

- Lignin and its Composites: A Sustainable Tool for Health Care and Medical Applications
- Synthesis of Lignin Nanoparticles and Hydrogels
- Chemical Modifications of Lignin for Biomedical Applications
- Technical Lignin Fractionation: A Powerful Tool for Lignin Structure Homogenizing and its Application
- Lignin-based Materials for Biomedical Applications: Basic Requirements and Properties
- Antimicrobial and Antioxidant Properties of Lignin and its Composites
- Lignin and its Composites for Drug Delivery Applications
- Lignin and its Composites for Tissue Engineering
- Lignin and its Composites for Wound Dressing
- Lignin as a Biomaterial for Bioimaging
- Lignin Based UV-protective Materials
- Biodegradability Studies of Lignin-based Materials

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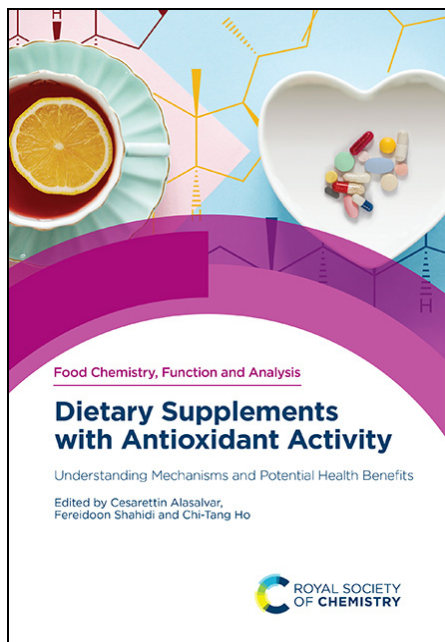
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Series: Food Chemistry, Function and Analysis

ISSN: 2398-0656

Publisher: Royal Society of Chemistry

ISBN: 978-1-83916-262-6

Price: £179.00 | \$250.00

Publishing date: 09/06/2023

Target Audience: Professional and scholarly

Format: Hardback

Size: 234 x 156 (Royal 8vo) mm

Pages: 388

BIC: MBNH3, PSB, TDCT

THEMA: MBNH3, PND, PSB, TDCT

BISAC: MED060000, SCI007000, TEC012010

Dietary Supplements with Antioxidant Activity

Understanding Mechanisms and Potential Health Benefits

Cesarettin Alasalvar TÜBİTAK MRC Food Institute, Turkey

Fereidoon Shahidi Memorial University of Newfoundland, Canada

Chi-Tang Ho Rutgers University, USA

Synopsis

Written by expert authors, this book provides an extensive overview of the literature on the health benefits of natural dietary antioxidant supplements. It presents state-of-the-art research and information as well as the global regulations, labelling, and health claims of natural dietary antioxidant supplements. The wealth of research is arranged by disease type rather than by supplement type making it much more navigable and useful to the reader. Filling a gap in the literature, the book is aimed at researchers and professionals working in food chemistry, nutrition, and health benefits.

Brief Contents

- Understanding Mechanisms and Potential Health Benefits: An Overview
- The Global Regulations and Health Claims on Natural Dietary Antioxidant Supplements
- Reduction of Cardiovascular Disease
- Green Tea Catechins and Nonalcoholic Fatty Liver Disease
- The Effect of Consuming Spices on Vascular Function
- Phytochemical-based Traditional Weight Loss Strategies for Management of Body Recomposition
- Dietary Lipid Supplements
- Mechanism of Anti-cancer Action of Natural Dietary Compounds
- Anti-diabetic Activity of Antioxidative Teas and Tea Polyphenols
- Brain Health: Cognition, Depression, and Neurodegenerative Diseases
- Improvement of Immune System
- Potential of Naturally-occurring Compounds for Antiviral Activity
- Gut Microbiota and Health
- Digestive Health and Gastrointestinal Protection
- Natural Dietary Antioxidants and Bone Health
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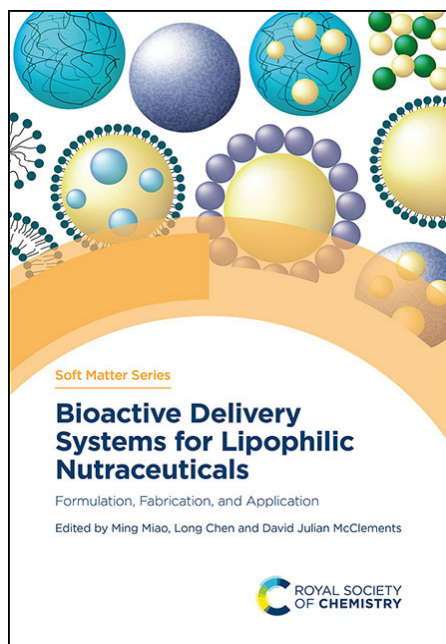
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Series: Soft Matter Series

ISSN: 2048-7681

Publisher: Royal Society of Chemistry

ISBN: 978-1-83916-418-7

Price: £179.00 | \$250.00

Publishing date: 26/06/2023

Target Audience: Professional and scholarly

Format: Hardback

Size: 234 x 156 (Royal 8vo) mm

Pages: 518

BIC: PHFC1, TDCT, TDCW

THEMA: PHFC1, TDCT2

BISAC: SCI077000, TEC012010

Bioactive Delivery Systems for Lipophilic Nutraceuticals

Formulation, Fabrication, and Application

Ming Miao Jiangnan University, China

Long Chen Jiangnan University, China

David McClements University of Massachusetts, USA

Synopsis

Lipophilic nutraceuticals include vitamins (A, C and E), carotenoids and flavanoids. This book reviews the current bioactive delivery systems for lipophilic nutraceuticals, and introduces their mechanisms, preparation methods, and application range.

Brief Contents

- Overview of Bioactive Delivery Systems
- Lipophilic Nutraceuticals
- Materials for Bioactive Compounds Delivery Systems
- Fabrication Methods for Bioactive Delivery Systems
- Characterization Methods
- Nanoemulsions and Emulsions
- Pickering Emulsions
- High Internal Phase Emulsions
- Organogels
- Liposomes
- Nanocrystals-based Systems
- Phytoglycogen-based Systems
- Highly Branched Cyclic Glucan-based Systems
- Nano-structured Protein-based Systems
- Nanofiber-based Systems
- Hydrogel-based Systems
- Self-assembled Nanoparticle-based Systems
- Next-generation Bioactive Delivery Systems

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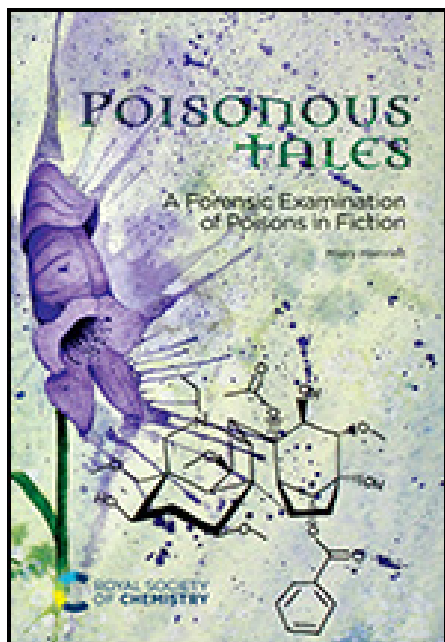
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Publisher: Royal Society of Chemistry

ISBN: 978-1-83916-143-8

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Publishing date: 17/05/2023

Target Audience: General/Trade, College/higher education, Professional and scholarly

Format: Paperback

Size: 228 x 152 mm

Pages: 254

BIC: FZC, PDZ, PSBT

THEMA: FZ, MKGT, PDZ

BISAC: SCI000000, SCI013090, SCI075000

Poisonous Tales A Forensic Examination of Poisons in Fiction

Hilary Hamnett University of Lincoln, UK

Synopsis

Dangerous, dark and difficult to detect, poisons have been a common character in literature from ancient times to the modern day. Their ability to perform deadly deeds at a distance is a common device for creating dramatic tension and playing on our real life fears. But what is fact and what is pure fiction?

From Shakespeare and Dickens to Hugo and Poe, the macabre world of literary poisonings is as large as it is fascinating. Utilising real forensic science *Poisonous Tales* explores the real science inspiring the toxins and tinctures in our favourite works. Could a poison really mimic death in *Romeo & Juliet*? What is the cause of the mad Hatter's malady in *Alice in Wonderland*? And could a stone from the stomach of a goat really have been used as an antidote in *Harry Potter & The Half-Blood Prince*? Through these and many more 'cases' we discover the captivating truth in the texts and how real-life tragedies can replicate themselves in fiction.

Brief Contents

- Useful Herb or Dreadful Poison
- The Cry of Death
- A Ghostly Encounter with Poison
- The Flattering Truth of Sleep
- The Queen of Poisons
- Outfoxed by Digitalis
- Poison for a Broken Heart
- The Power to Heal as well as Harm
- Beautiful but Deadly
- Nature's Toxic Gift
- Mad as a Hatter
- The Silent Killer

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Series: Soft Matter Series

ISSN: 2048-7681

Publisher: Royal Society of Chemistry

ISBN: 978-1-83916-227-5

Price: £179.00 | \$250.00

Publishing date: 07/06/2023

Target Audience: Professional and scholarly

Format: Hardback

Size: 234 x 156 (Royal 8vo) mm

Pages: 477

BIC: PHFC1, PHK, PNNP, TGMF3

THEMA: PHDF, PHFC1, PNRC, TGMP

BISAC: SCI038000, SCI085000, SCI097000

Magnetic Soft Matter Fundamentals and Applications

Juan de Vicente University of Granada, Spain

Synopsis

Covering the most recent literature in the field, with special emphasis on the physical mechanisms behind their rheological behaviour, this book aims to demonstrate the controllability of soft matter through an external (magnetic) stimulus. With chapters written by leading experts, this complete perspective of the field attempts to bridge the gap between fundamentals and applications and is an excellent addition to any soft matter scientist's library.

Brief Contents

- Introduction to Magnetorheological Fluids
- Advances on the Sedimentation Stability of MR Fluids
- Progress in Surface Functionalized Particle-based MR Composites
- Mechanical Properties of Soft Composites Fabricated From Two Different Magnetorheological Materials
- Using Triaxial Magnetic Fields to Create Optimal Particle Composites, Fluid Vorticity, Advection Lattices, Vortex Lattices, and Biomimetic Dynamics
- Dynamics of Ferromagnetic Colloids at Liquid Interfaces Under Unsteady Magnetic Fields in 2D
- Collective Colloidal Transport Across Periodic Magnetic Landscapes
- On the Use of X-Ray Microtomography to Investigate the Field-driven Structure and Rheology in MR Elastomers
- Influence of Friction on Magnetorheological Effect
- On the Use of Unsteady Magnetic Fields in Magnetorheology
- Rheological Properties of Bimodal Magnetic Suspensions
- Discontinuous Shear Thickening with Suspensions of Magnetic Particles
- Magnetic Soft Matter in a Rotating Field
- Particle Level Simulations in Magnetorheological Suspensions
- Application of Magnetic Colloids in Hydrogels for Tissue Engineering

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