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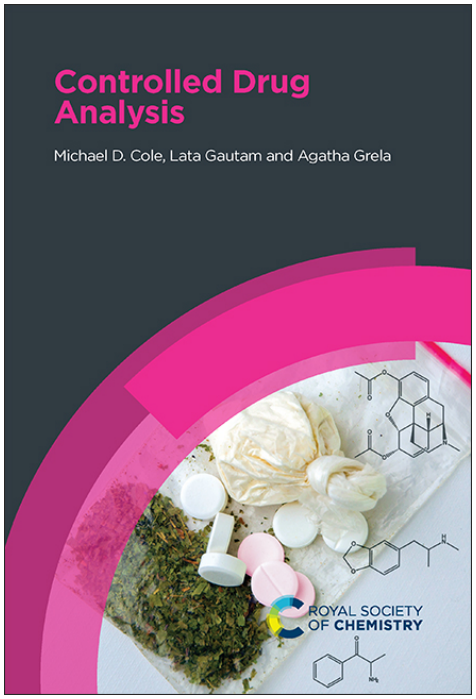

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THEMA:	JKVF1, PNF, PSB
BISAC:	SOC004000, SCI013010, SCI007000

Controlled Drug Analysis

Michael D Cole Anglia Ruskin University, UK
Lata Gautam Anglia Ruskin University, UK
Agatha Grela Anglia Ruskin University, UK

Synopsis

This book is the first of its kind to bring together a number of areas around the analysis of controlled substances. Aimed at undergraduate and postgraduate taught programmes, it includes methods for drug analysis and comparison using physical, biologically based, comparative and numerical techniques. It introduces statistical methods for drug sample comparison and the appropriateness of some of the statistical techniques, which have been applied to drug analysis, and examines their use. It also considers analytical methods that have been developed, and significant legislative changes. It is aimed at academics delivering forensic science courses in particular, but it could also be used by chemistry, biochemistry, criminalistics, criminology and law and policing students on MSc forensic science courses and postgraduate research candidates.

Key Features and Highlights

- Provides a comprehensive and critical treatise of the analysis of modern controlled substances including fentanyls, cathinones, synthetic cannabinoids and novel psychoactive substances (NPS). Explains the methods used for the analysis, why these methods are used and how they work.
- Incorporates a systematic treatment of numerical methods used for drug comparison, including a review of methods used for different drug classes and an examination of the appropriateness of those methods allowing the reader to understand whether their proposed numerical method is valid.
- Presents a modern treatment of the legislative framework in which drug control and analysis occurs allowing the reader to make decisions on whether their methodologies satisfy these criteria.

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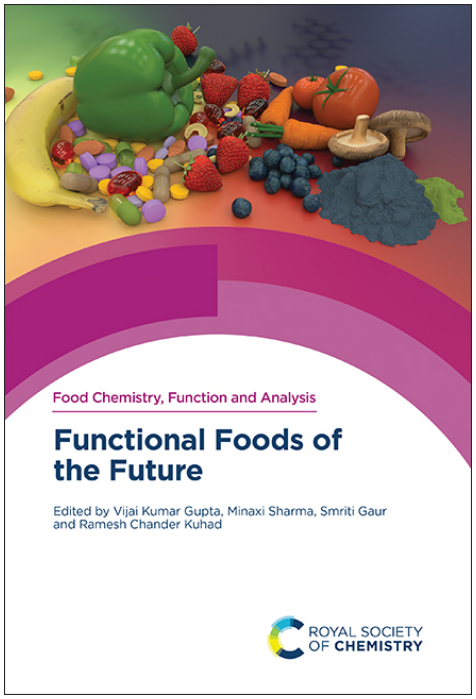

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THEMA:	TDCT, PND, PSB, TCB
BISAC:	TEC012010, SCI010000
Series:	Food Chemistry, Function and Analysis Volume 44

Functional Foods of the Future

Vijai Kumar Gupta SRUC, University of Edinburgh, UK
Minaxi Sharma CARAH ASBL, Belgium
Smriti Gaur Jaypee Institute of Information Technology, India
Ramesh Chander Kuhad Shree Guru Gobind Singh Tricentenary University, India

Synopsis

Edited and authored by well-known and internationally spread contributors, this book focuses on the impact that aspects of bioproduction, biochemistry and food processing can have on properties of future functional foods. Relevant information regarding the health impacts of using functional foods is also provided. The book fills a gap by concentrating on the development of processes behind new functional foods, covering many different new types and describing how any benefits of these foods might be improved through the production and processing stages. It covers a wide range of 'trendy' and functional foods which are growing in popularity. The book is aimed at food development researchers and the food production and processing industry.

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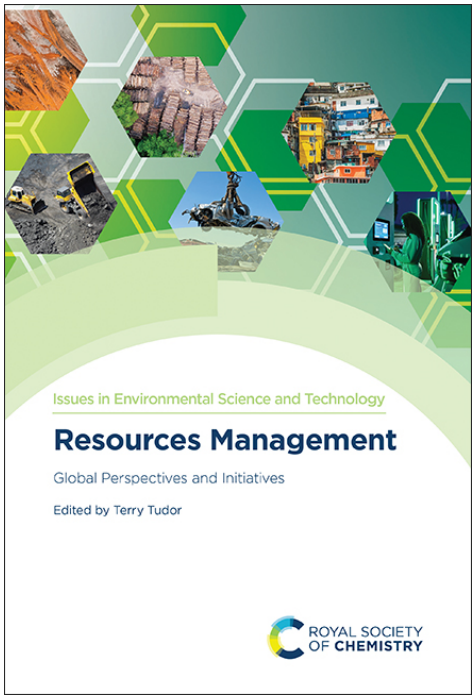

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Size:	234 x 156 (Royal 8vo) mm
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BIC:	RNF, RND, KNAT
THEMA:	RNF, RND, KNAT
BISAC:	SCI026000, TEC010000, NAT038000, POL044000, TEC026000
Series:	Issues in Environmental Science and Technology Volume 52

Resources Management

Global Perspectives and Initiatives

Terry Tudor SusConnect Ltd, UK

Synopsis

The management of natural resources plays a vital role in the socio-economic development of all countries. However, the environment, and its ecosystems and resources, are being increasingly threatened through over-exploitation, mismanagement, and pollution in the search for economically important raw materials and for sustenance. Taking a sectoral, national, and global view of the management of resources, this book will appeal to a broad range of stakeholders. It is essential reading for anyone working in resource management, sustainability, development, and policy.

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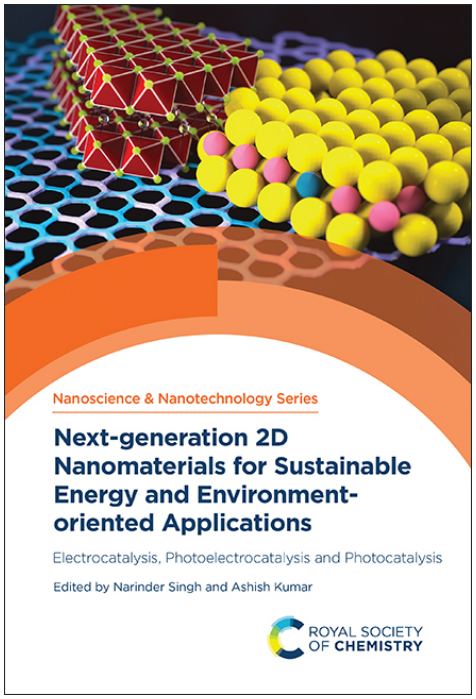

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THEMA:	PDT, THY, PNRD
BISAC:	SCI050000, SCI013080, SCI026000, SCI013100
Series:	Nanoscience & Nanotechnology Series Volume 67

Next-generation 2D Nanomaterials for Sustainable Energy and Environment-oriented Applications

Electrocatalysis, Photoelectrocatalysis and Photocatalysis

Narinder Singh Sardar Patel University, India
Ashish Kumar Sardar Patel University, India

Synopsis

2D nanomaterials have recently attracted the attention of researchers owing to their numerous intriguing properties, such as high chemical reactivity and kinetics, superb carrier mobility and high thermal conductivity. This book focuses on current advances in the rational design, fabrication, characterization and applications of 2D nanomaterial composites for energy storage, energy conversion, and environmental remediation. It emphasises simple, cost-effective, eco-friendly and sophisticated techniques for fabricating 2D nanomaterials and their composites. This text is aimed at helping researchers prepare new 2D nanomaterial composites with improved performances for the design and development of sustainable energy storage and conversion devices and sustainable surroundings. It is also suitable reading for policy makers working towards sustainable energy and environmental remediation goals, as well as postgraduates and undergraduates in the fields of materials science, environmental science and engineering and nano-based courses.

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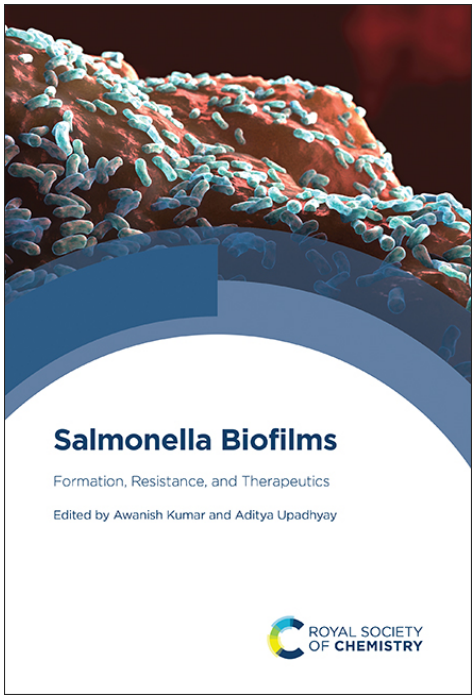

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BISAC:	SCI045000, SCI007000, SCI013040, SCI006000

Salmonella Biofilms

Formation, Resistance, and Therapeutics

Awanish Kumar National Institute of Technology, Raipur, India
Aditya Upadhyay National Institute of Technology, Raipur, India

Synopsis

Due to the difficulty of treatment, investigation of alternatives to conventional antibiotics are an important direction of research in combating biofilm formation, with Salmonella being an especially interesting pathogen. Covering Salmonella infection and mechanisms of biofilm formation, as well as current and emerging therapeutic management strategies, this book is of interest to advanced students and researchers looking to solve this global health crisis.

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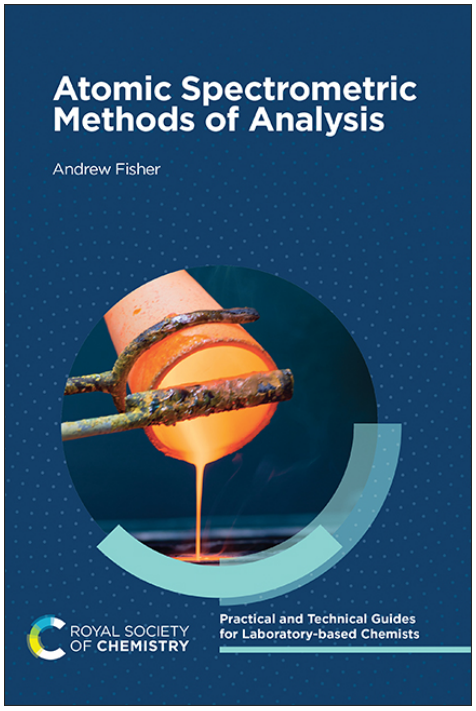

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Size:	234 x 156 (Royal 8vo) mm
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THEMA:	PNFS, PDN, 4CP
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Series:	Practical and Technical Guides for Laboratory-based Chemists Volume 1

Atomic Spectrometric Methods of Analysis

Andrew Fisher University of Plymouth, UK

Synopsis

Atomic spectrometry techniques are used to determine the metallic elements, as well as metalloids and non-metals. This book provides methods of sample collection, sample preparation and analytical methodology for the atomic spectrometric analysis of samples. Pitfalls, common errors and useful hints and tips will be explored. In addition to the instrumental techniques themselves, the sections on sample collection and sample preparation methods are very useful for those practising or revising the techniques. It provides a valuable source of theoretical and practical information for those who are new to the techniques or working in laboratories with little access to in-house expertise. It is an accessible reference which can be read in parts or as a whole and is written to appeal to researchers, industrial scientists and technicians working in this field.

Key Features and Highlights

- Provides methods of sample collection, sample preparation and the analytical methodology required for the use of atomic spectrometric methods in analysis.
- Pitfalls, common errors and useful hint and tips are included to aid the use of this technique.
- Relevant and appealing to all levels of users in the field.

Brief Contents

- Sample Collection Methods
- Sampling Preparation Methods
- X-ray Fluorescence Spectrometry
- Atomic Absorption Spectrometry (AAS)
- Inductively Coupled Plasma–Optical Emission Spectrometry (ICP–OES)
- Inductively Coupled Plasma–Mass Spectrometry-(ICP–MS)
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- Vapour Generation and Atomic Fluorescence Spectrometry (AFS)
- Which Technique to Use?

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