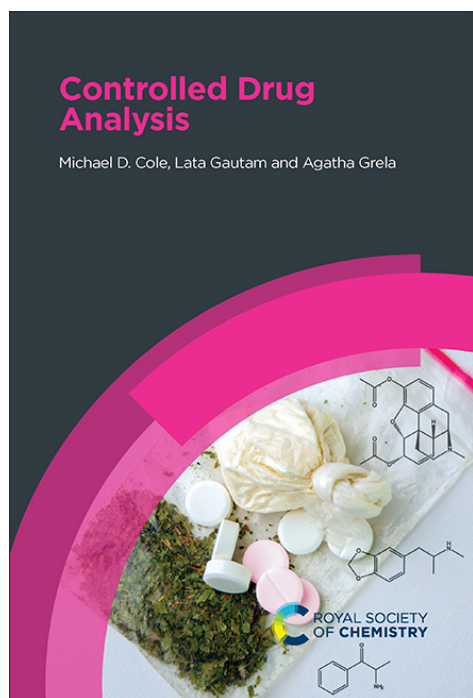


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**Pages:** 204

**BIC:** JKVF1, PNF, PSB

**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.

### Brief Contents

- Legislative Systems and Controlled Drugs
- Drug Sampling
- The Analysis of Cannabis and Products
- The Analysis of Synthetic Cannabinoids
- The Analysis of Hallucinogenic Drugs from Plants and Fungi
- The Analysis of Khat and the Cathinones
- The Analysis of Opiate Drugs and Heroin
- The Analysis of Amphetamines, Ring Substituted Amphetamines and Related Compounds
- The Analysis of Barbiturate Drugs
- The Analysis of Phenyl- and Benzylpiperazines
- The Analysis of Cocaine
- The Analysis of Benzodiazepines
- The Analysis of Fentanyl and Analogues
- The Analysis of Phencyclidine and Ketamine

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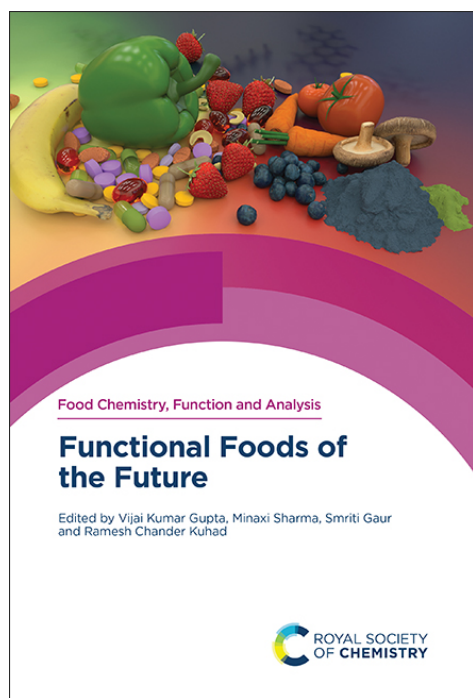
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## Functional Foods of the Future

**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.

### Brief Contents

- Scope and Current Status of Functional Foods: The SDGs Perspective
- Nanotechnology: A Boon for Sustainable Development of Functional Foods
- Recent Advances in Fermented Functional Foods
- Role of Omega-3s in Functional Foods
- Conjugated Linoleic Acids: A Therapeutic Agent in Functional Food Formulations
- Curcumin: Therapeutic Nutrient in Human Health and Recent Advancements in Food Formulations
- Resveratrol: Recent Advances and Applications in Functional and Nutraceutical Foods
- Fortification of Phenols in Dairy Products
- Prebiotic Foods: An Emerging Therapeutic Approach
- Microbial Functional Foods and Nutraceuticals
- Recent Insights in Potential Applications of Edible Packaging Materials in Food Industries
- Functional Energy Drinks: Today's Choice?
- Lactobacilli as Gut Modulators: Established Applications
- Religious and Cultural Perspectives on Food Selection
- Therapeutic Role of Natural Pigments in Functional Food Applications
- Functional Food Production Utilizing Microbial Vitamins and Carotenoids

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<b>BIC:</b>	TDCT, PSB, TCB
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<b>Series:</b>	Food Chemistry, Function and Analysis Volume 44

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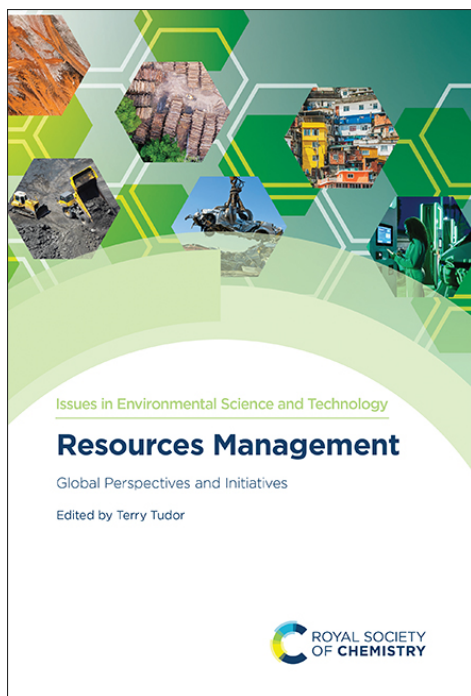
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## Resources Management

### 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.

#### Brief Contents

- Introduction
- An Overview of International Natural Resources Policies and Laws
- Sustainable Consumption and Production: Perspectives from India
- Testing and Monitoring for Spontaneous Combustion and Explosion Hazards in the Australian Coal Mining Industry
- Challenges at the Intersection of Mineral Resource Sector, Circular Economy, and Economic Development
- A Multi-stakeholder Policy Perspective of the EU Critical Raw Materials Act: The Case of Lithium Mining
- Applied Smouldering Combustion for Supporting a Circular Economy
- Effecting Behaviour Change with Collaborative Education – Comparative Analysis from Colorado Case Studies
- Sustainable Finance Policy Path Towards Decarbonisation in Latin America and the Caribbean
- Concluding Remarks

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**Date:**

**Target:** College/higher education, ,

**Audience:** Professional and scholarly

**Size:** 234 x 156 (Royal 8vo) mm

**Pages:** 318

**BIC:** RNF, RND, KNAT

**THEMA:** RNF, RND, KNAT

**BISAC:** SCI026000, TEC010000,  
NAT038000, POL044000,  
TEC026000

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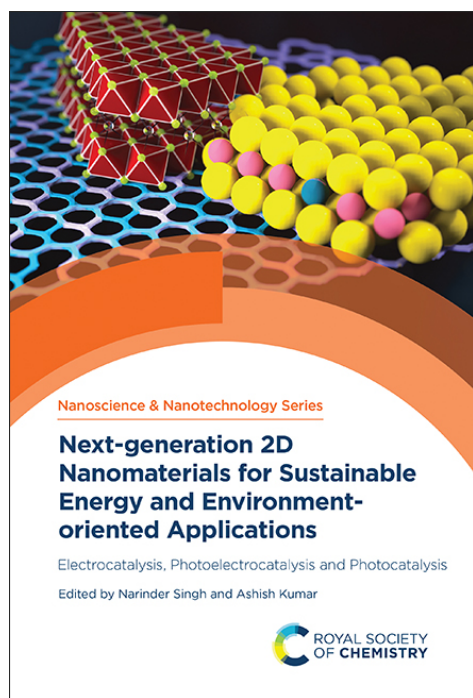
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**BIC:** TQ, TBN, PD, PNRD

**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.

#### Brief Contents

- An Overview of Emerging 2D Nanomaterials: General Synthesis Methods and Properties
- Electrocatalytic, Photoelectrocatalytic, and Photocatalytic Performance Parameters and Their Measurement Techniques
- General Strategies for Performance Enhancement of 2D Nanomaterials
- Futuristic 2D Nanomaterial Composites for Electrochemical Energy Storage
- Emerging 2D Nanomaterial Composites for Efficient Energy Conversion
- Recent Trends in 2D Nanomaterial Composites as Charge Transporting Layer, Electrodes and Additives in Active Layers in Organic and Perovskite Solar Cells
- Recent Advancements in Graphene-Based Nanomaterials for CO<sub>2</sub> Capture and Conversion
- Two dimensional Nanomaterials Based Heterogeneous Catalysts for Sustainable Ammonia Production
- 2D Nanomaterials for Energy and Environment-Oriented Applications: Scalable Production and Environmental Concerns

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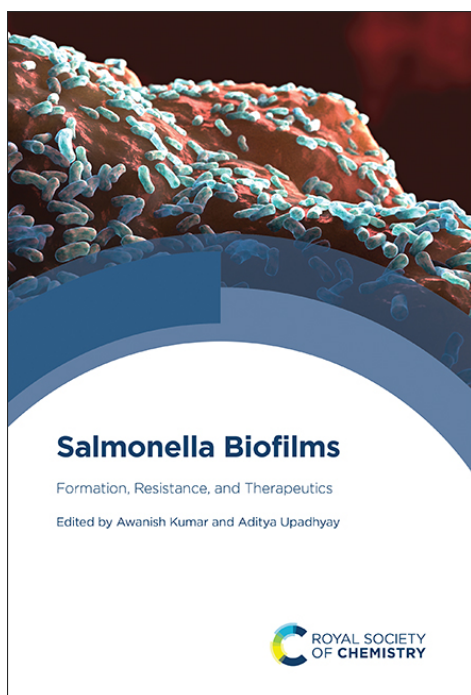
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## Salmonella Biofilms

### 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.

#### Brief Contents

- Biofilm: A Life for Microorganisms with Basic Biofilm Principles
- Salmonella Infection with Biofilm in Developed and Developing Nations
- Uncovering the Co-relationship Between Salmonella Biofilm Infections and Other Morbidities
- Antibiotic Therapy for Salmonella Biofilm Disruption
- Enzymatic Drug Therapy for Salmonella Biofilm Disruption
- Secondary Metabolites and Peptide Drug Therapy for Salmonella Biofilm Disruption
- Phytochemical-based Drugs for Salmonella Biofilm Disruption
- Synthetic Compound in Disruption of Salmonella Biofilm
- Combinatorial Drug Therapy for Salmonella Biofilm Disruption
- Drug Repurposing as an Effective Solution to Control the Salmonella Biofilm Infection
- Nanodrug Therapy for Salmonella Biofilm Disruption
- Future Discovery Path to Combat Salmonella Biofilm Infection

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**THEMA:** PSG, PSE, PSB

**BISAC:** SCI045000, SCI007000,  
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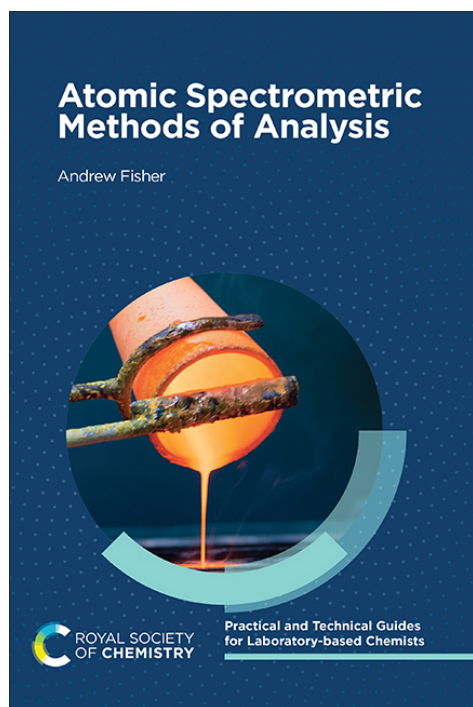
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## Atomic Spectrometric Methods of Analysis

**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)
- Laser Induced Breakdown Spectrometry
- Vapour Generation and Atomic Fluorescence Spectrometry (AFS)
- Which Technique to Use?

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**THEMA:** PNFS, PDN, 4CP

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