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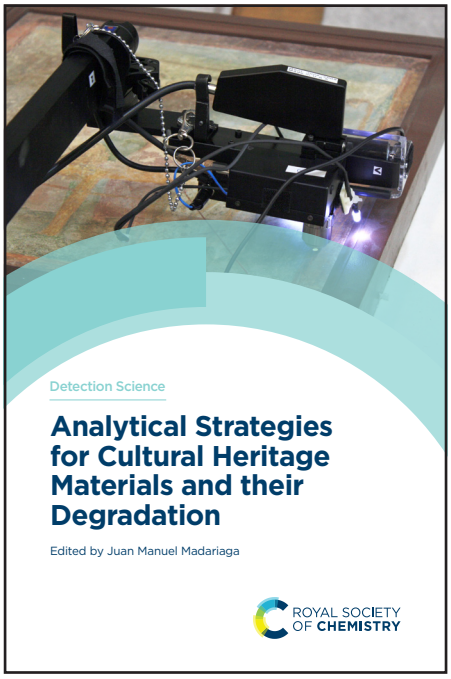

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Analytical Strategies for Cultural Heritage Materials and their Degradation

Juan Manuel Madariaga University of the Basque Country, Spain

Synopsis

Reviewing the analytical strategies used in the study of cultural heritage assets ie movable - artworks and archaeological items - and immovable – eg mural paintings, archaeological sites, historical buildings, this book pays particular attention to the analytical methodology (spectroscopic and chromatographic analysis) and ensuring reliable results are obtained. It considers the influence of the environment on the conservation state and how modern analytical methods have improved the possibilities of analysing materials. The book emphasizes multi-method approaches on a range of materials, an approach that is of keen interest to those working in conservation practice. It is for final year undergraduate study and masters' level and supplementary reading for postgraduates and academics who require analytical techniques to enhance their research.

Brief Contents

- Introduction to Analytical Strategies for Cultural Heritage
- Non-destructive Elemental Characterization of Cultural Heritage Materials: X-ray Fluorescence (XRF) Techniques
- Open Air Laser Induced Breakdown Spectroscopy (LIBS)
- Synchrotron Radiation Sources for Characterization at the Microscopic Level
- Molecular Characterization of Cultural Heritage Materials: Infrared Spectroscopy Based Techniques
- Raman Spectroscopy
- Separation Methods in Cultural Heritage
- Multianalytical Approach on Cultural Heritage Materials and its Degradations: Open Air Sculptures and Public Art

Series: **Detection Science**
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Edition: **1**
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Pages: **300**
BIC: **ABC, PNF, TGM**

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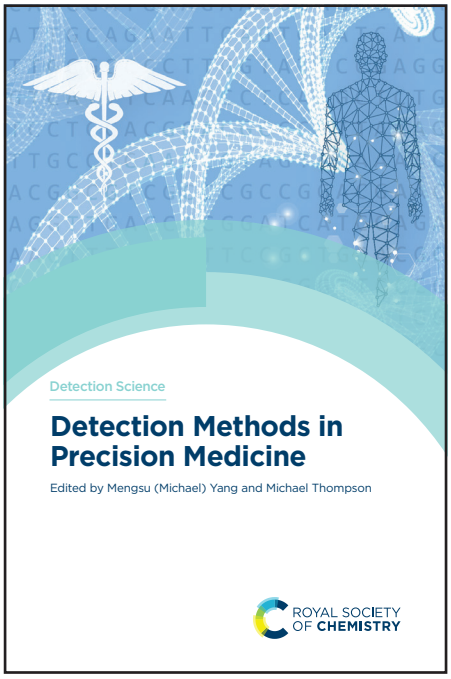

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Detection Methods in Precision Medicine

Mengsu (Michael) Yang City University of Hong Kong, Hong Kong
Michael Thompson University of Toronto, Canada

Synopsis

Precision Medicine is a medical model that proposes the customization of healthcare, with medical decisions, treatments, practices, or products being tailored to the individual patient. It has a particularly important role in the treatment of inherited diseases and cancer as physicians often screen for genetic markers in their patients, yet it is increasingly clear that clinicians are only tapping the surface of what it can offer. Developing new diagnostic tests and expanding the use of biomarkers enables the identification of the molecular cause of disease, and ultimately supports the development of novel, more precisely targeted treatments. This book will support the literature in the area from the bioanalytical point of view. The scientific and medical community are interested in this area with detection methods covering topics for physicians, medical laboratory technologists and scientists/engineers.

Series: **Detection Science**
ISSN: **2052-3068**
Publisher: **Royal Society of Chemistry**
ISBN: **9781788017619**
Price: **£159.00 | $220.00**
Publishing date: **18/12/2020**
Target Audience: **Professional and scholarly**
Format: **Hardback**
Edition: **1**
Size: **234 x 156mm**
Pages: **250**
BIC: **MJA, PNF, PSB**

Brief Contents

- Biomarkers for Precision Medicine: Genome-wide Discovery of MicroRNA Biomarkers for Cancer Precision Medicine
- Extracellular vesicles in precision medicine
- Proteomics in Precision Medicine
- Computational Prediction of Tumor Neoantigen For Precision Oncology
- Big Data and its emerging role in therapeutic response modeling
- Sequencing Methods in Precision Medicine: Detection of Disease-Associated Mutations and Biomarkers using Next-Generation Sequencing
- Nanopore sequencing and detection of tumor mutations
- Analytical Challenges of Next Generation Sequencing in Precision Medicine

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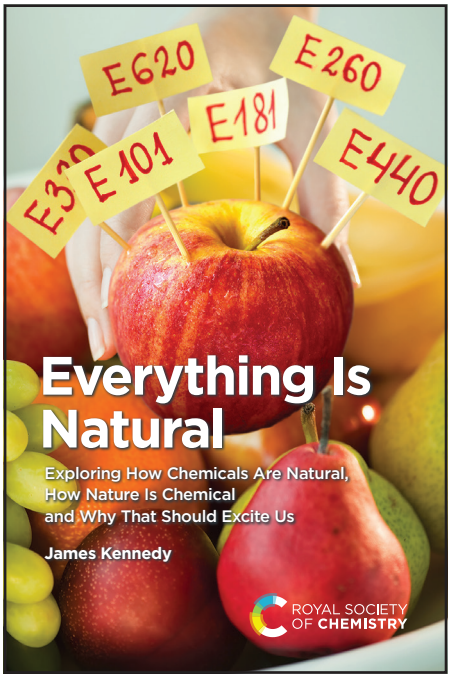

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Everything Is Natural

Exploring How Chemicals Are Natural, How Nature Is Chemical and Why That Should Excite Us

James Kennedy Monash College, Australia

Synopsis

Since the early 1990s, advances in toxicology have allowed scientists to detect traces of adulterant substances in everyday products – even down to parts per billion concentrations. We can now detect the presence of harmful ingredients at levels so low that they actually cause no harm. This book explores the history of chemical fears and the recent events that amplified it. It describes how consumers, teachers, doctors, lawmakers and journalists can help make better connections with the public by telling stories that are more engaging about chemistry and materials science.

Brief Contents

- The All-Natural Banana
- Yearning for Nature
- The Natural Delusion
- The Naturalness Preference
- Chemistry, Chemicals and Chemists
- Bad Reputations
- Chemophobia as a Weapon
- Fighting Chemophobia
- Earthrise

Publisher: **Royal Society of Chemistry**
ISBN: **9781839162404**
Price: **£19.99 | $27.99**
Publishing date: **12/01/2021**
Target Audience: **General/Trade**
Format: **Paperback**
Edition: **1**
Size: **228 x 152mm**
Pages: **250**
BIC: **PDR, PDZ, PN**

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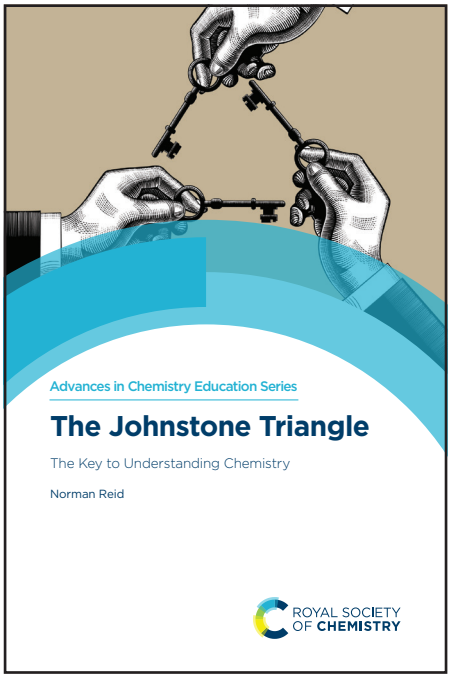

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The Johnstone Triangle

The Key to Understanding Chemistry

Norman Reid Emeritus Professor, University of Glasgow, UK

Synopsis

Chemistry is often seen as a difficult subject to understand. This book focusses on the triangle model that Alex H Johnstone developed in the early 1980s. Originally conceived in the context of making chemistry more accessible to a wider range of learners, the model has been applied in almost every area of education in chemistry at all stages of learning.

Series: **Advances in Chemistry Education Series**
ISSN: **2056-9335**
Publisher: **Royal Society of Chemistry**
ISBN: **9781839161681**
Price: **£99.99 | $140.00**
Publishing date: **21/01/2021**
Target Audience: **Professional and scholarly**
Format: **Hardback**
Edition: **1**
Size: **234 x 156mm)**
Pages: **250**
BIC: **JNA, JNT, JNU, PN**

Brief Contents

- The Working Memory Story
- The Central Role of Working Memory
- Johnstone's Triangle
- Johnstone's Triangle and the Curriculum
- Johnstone's Triangle and the Learning Process
- Releasing Understanding
- Tips and Tricks
- Bringing it Together

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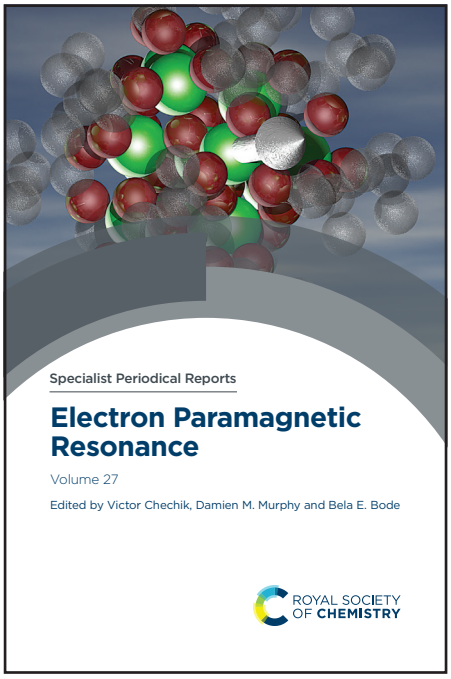

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Electron Paramagnetic Resonance

Volume 27

Victor Chechik University of York, UK
Damien M Murphy University of Cardiff, UK
Bela E Bode University of St Andrews, UK

Synopsis

The topics covered in this volume describe contrasting types of electron paramagnetic resonance (EPR) application, which remain very significant in modern science. This volume compiles critical coverage of developments in the recent literature by a hand-picked group of researchers at the cutting-edge of the field. Providing a snapshot of the area, this book is a useful addition to any library supporting this research.

Series: **Specialist Periodical Reports**
ISSN: **1464-4622**
Publisher: **Royal Society of Chemistry**
ISBN: **9781839161711**
Price: **£314.95 | $440.00**
Publishing date: **11/11/2020**
Target Audience: **Professional and scholarly**
Format: **Hardback**
Edition: **1**
Size: **234 x 156 (Royal 8vo)**
Pages: **200**
BIC: **PNFS**

Brief Contents

- Paramagnetic Species in Catalysis Research: A Unified Approach Towards (the Role of EPR in) Heterogeneous, Homogeneous and Enzyme Catalysis
- Advanced EPR Spectroscopy for Investigation of Biomolecular Binding Events
- Using Pulsed EPR in the Structural Analysis of Integral Membrane Proteins
- Recent Contributions of EPR to Nitrone and Nitroxide Chemistry
- Molecules as Qubits, Qudits and Quantum Gates
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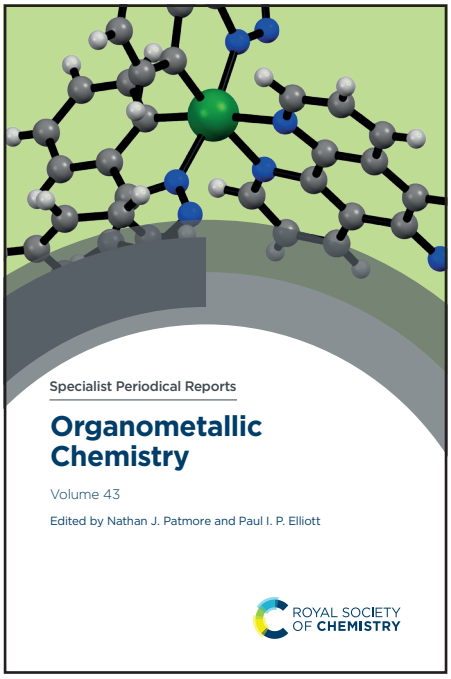

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Organometallic Chemistry

Volume 43

Nathan J Patmore University of Huddersfield, UK
Paul I P Elliott University of Huddersfield, UK

Synopsis

With the increase in volume, velocity and variety of information, researchers can find it difficult to keep up to date with the literature in their field. This interdisciplinary field has the potential to provide answers to problems and challenges faced in catalysis, synthetic organic chemistry and the development of therapeutic agents and new materials. Providing an invaluable volume, this volume contains analysed, evaluated and distilled information on the latest in organometallic chemistry research.

Series: **Specialist Periodical Reports**
ISSN: **0301-0074**
Publisher: **Royal Society of Chemistry**
ISBN: **9781788016919**
Price: **£314.95 | $440.00**
Publishing date: **05/11/2020**
Target Audience: **Professional and scholarly**
Format: **Hardback**
Edition: **1**
Size: **234 x 156mm**
Pages: **250**
BIC: **PNND**

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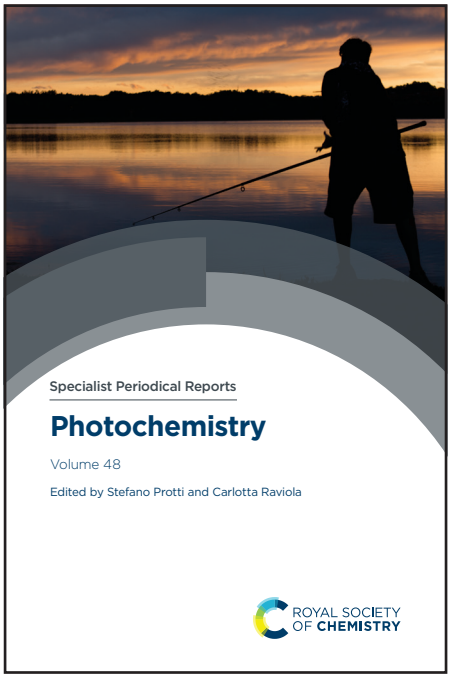

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Photochemistry

Volume 48

Stefano Protti University of Pavia,
Carlotta Raviola University of Pavia, Italy

Synopsis

Reviewing photo-induced processes that have relevance to a wide-ranging number of academic and commercial disciplines, this volume reflects the current interests in chemistry, physics, biology and technology. Highlight chapters include advances in computational photochemistry and chemiluminescence of biological and nanotechnological molecules, industrial applications of photochemistry, recent advances in logically and light induced systems and applications of photofragmentation in synthesis. A new category of SPR lectures has been included with the first of several topics being photochemistry of organic compounds at the air-ice interface being covered. Essential reading for postgraduates, academics and industrialists working in the field of photochemistry, enabling them to keep on top of the literature.

Series: **Specialist Periodical Reports**
ISSN: **0556-3860**
Publisher: **Royal Society of Chemistry**
ISBN: **9781839161407**
Price: **£314.95 | $440.00**
Publishing date: **27/10/2020**
Target Audience: **Professional and scholarly**
Format: **Hardback**
Edition: **1**
Size: **234 x 156 (Royal 8vo)**
Pages: **400**
BIC: **PNRL**

Brief Contents

- Introduction of the Year 2019
- Photochemistry, Chemiluminescence and Dark Photochemistry:
- Computational Advances (2018-2019)
- Organic aspects: Photochemistry of Alkenes, Dienes, Polyenes (2018-2019)
- Photochemistry of Aromatic Compounds; Oxygen-Containing Chromophores
- Organic Aspects: function containing a Heteroatom different from Oxygen (2018–2019)
- Photo-rearrangement Reactions with application in Organic Synthesis (2015- 2019)

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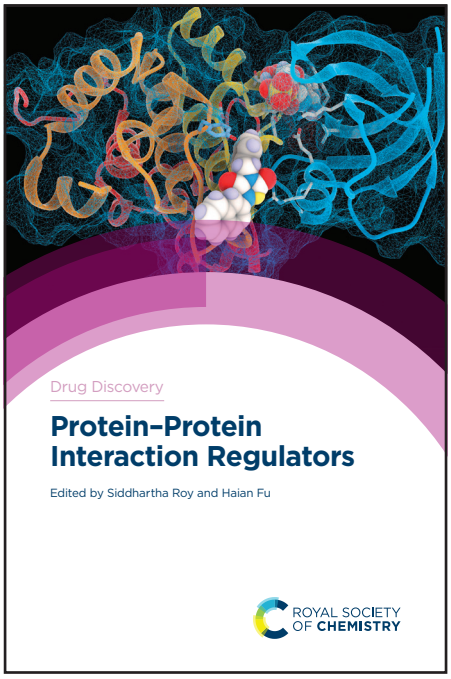

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Protein–Protein Interaction Regulators

Siddhartha Roy Bose Institute, India
Haian Fu Emory University School of Medicine, USA

Synopsis

Molecular interations, protein–protein interactions play a crucial role in regulating many cellular functions. In many diseases, abberant forms of these interactions play central roles. Thus, they have emerged as critical drug targets. This book includes a survey of recent advances in the structural understanding of protein–protein interactions, as well as recent developments in modulator discovery.

Series: **Drug Discovery**
ISSN: **2041-3203**
Publisher: **Royal Society of Chemistry**
ISBN: **9781788011877**
Price: **£159.00 | $220.00**
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Target Audience: **Professional and scholarly**
Format: **Hardback**
Edition: **1**
Size: **234 x 156mm**
Pages: **350**
BIC: **PHVN, PSBC**

Brief Contents

- Protein-protein interaction interfaces and their functional implications
- Protein-Protein interaction networks in human disease
- High Throughput Screening Methods for PPI inhibitor discovery
- Computational structural modeling to discover PPI modulators
- Small molecule inhibitors of E3 ubiquitin ligases
- Hydrogen bond surrogate stabilized helices as Protein-Protein interaction inhibitors
- Helix-mimetics as Protein-Protein Interaction Inhibitors
- Discovery and Development of Mcl-1 Inhibitors as Anti-cancer Therapeutics: Hit to Clinical Candidate Optimization

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