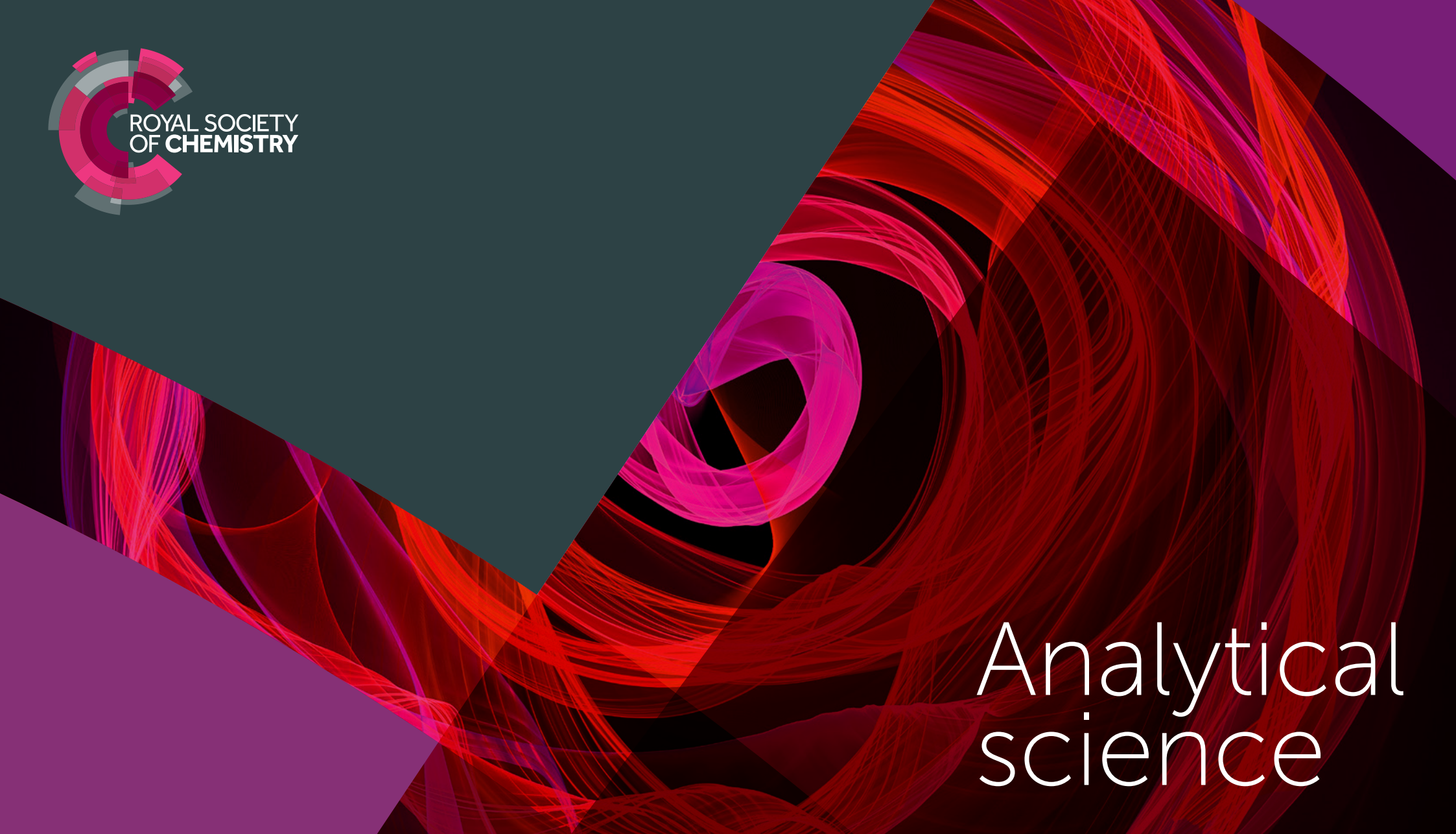
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Five minutes with...

Name William S Price

Affiliation Western Sydney University, Australia

Editor-in-chief *New Developments in NMR*

Editor *Hands-on NMR*

Publication date November 2018

Tell me about yourself
I am professor of medical imaging physics at Western Sydney University. I specialise in the 'physical side' of magnetic resonance, including how to probe molecular dynamics using diffusion and relaxation measurements and also magnetic resonance imaging (MRI). These magnetic resonance techniques are applicable to an extraordinarily diverse range of applications – you can use the same techniques for studying cancer biopsies as you can for grape development.

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In your opinion, what is the biggest unanswered question in chemistry?
It seems to me that as soon as you answer one question, another equally challenging question arises. Perhaps this is what makes chemistry so interesting. It's very satisfying to answer one question, but it is nice to know that there is always more to do. And I am sure (without bias) that magnetic resonance will be part of many of the solutions to such questions.

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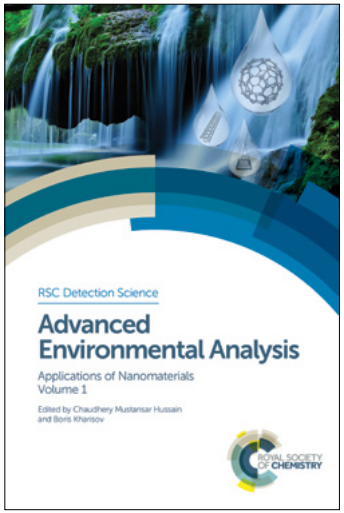

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Carbon-based Nanomaterials in Analytical Chemistry

Carlos D Garcia Clemson University, USA | **Agustín G Crevillén** Universidad Nacional de Educación a Distancia, Spain | **Alberto Escarpa** Universidad of Alcalá, Spain

This book serves as a reference manual which guides readers through the possibilities of carbon nanomaterials in various fields of chemical analysis. It provides current guidance to selecting the most appropriate material for targeted analytical application whilst considering the future trends in this field. Presenting the most relevant advances in employing carbon-based nanostructured materials for analytical purposes, this book fills a gap in the literature for graduate students and professional researchers across analytical chemistry in industry and academia.

Hardback | 250 pages | 9781788011020 | 2018 | £159.00 | $223.00

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Confining Electrochemistry to Nanopores

From Fundamentals to Applications

Yi-Lun Ying East China University of Science and Technology, China | **Yao Lin** East China University of Science and Technology, China | **Yi-Tao Long** East China University of Science and Technology, China

Aimed at developing the concept of the electrochemical confined space in analysing single molecules, this book serves as a stepping stone to many exciting discoveries in nanopore-based analysis of biological processes and chemical reactions in confined space. There has been no newly published books on nanopore technology which provide a general overview of the research on nanopore-based sensing but the field of nanopore sensors is growing rapidly. The book provides a good source of nanopore studies for researchers interested in and working in the general areas of electrochemistry and nanobiotechnology, especially on nanopore sensors.

Hardback | 250 pages | 9781788012713 | 2019 | £159.00 | $223.00

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Quenched-phosphorescence Detection of Molecular Oxygen

Applications in Life Sciences

Dmitri B Papkovsky University College Cork, Ireland | **Ruslan I Dmitriev** University College Cork, Ireland

Providing an overview of the recent developments in oxygen sensing employing quenching of phosphorescent materials including dyes, polymers and pigments, this book will bring the literature up to date as this field has seen major progress and deployment of advanced sensor chemistry, materials and detection systems. The applications are broad and developing particularly in biomedical, food packaging and environmental areas open to commercialisation. Aimed at researchers in academia and industry interested in oxygen measurement and technologies, it delivers practical guidance for potential new users and researchers.

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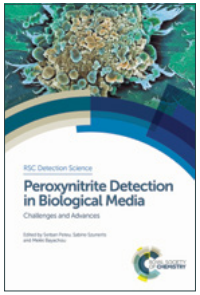

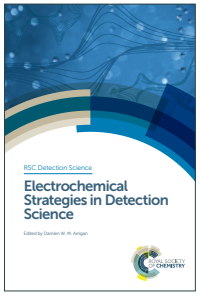

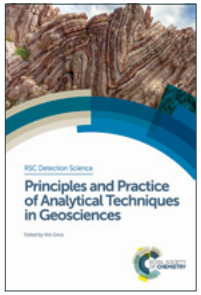

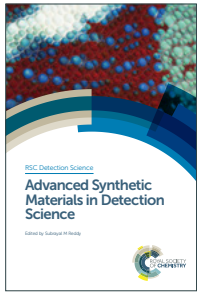

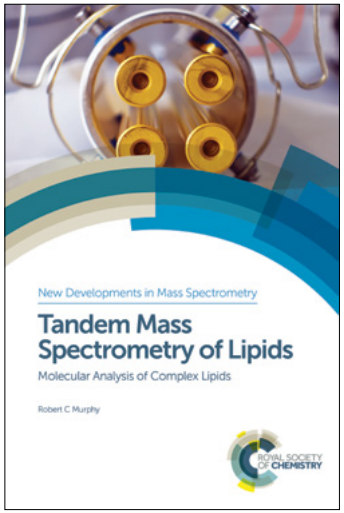

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Rawi Ramautar Leiden University, The Netherlands

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William Griffiths Swansea University, UK | **Yuqin Wang** Swansea University, UK

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Joseph Banoub Memorial University of Newfoundland, Canada

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Mass Spectrometry in Biopharmaceutical and Emerging Drug Modalities

Mark Bolgar Bristol-Myers Squibb, USA

The focus of this book is on the use of mass spectrometry (MS) for the assessment of alternative modes of drug efficacy and inclusion of information on the use of MS in the development of protein biosimilars. This topic is not included in competing books but is a key technological enabler of a rapidly growing sector of the biopharmaceutical industry. Providing a unique and up-to-date addition to the literature in this area, this volume is aimed at researchers, both new and established, looking into the applications of mass spectrometry in the pharmaceutical industry.

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Miniature Mass Spectrometry Systems

Zheng Ouyang Purdue University, USA | **Xiaoyu Zhou** Tsinghua University, China | **Dalton Snyder** Purdue University,USA | **Graham Cooks** Purdue University, USA

The potential for miniature mass spectrometry (MS) systems is large and the book provides an overview on aspects of the technology and instruments, as well as their applications including areas such as medical diagnostics and pharmaceutical research. Intended for readers interested in miniature MS and related technology, and analytical applications of mass spectrometry which might include developers and funders of these instruments. It can be used as supplementary reading materials for undergraduate and graduate students, and can also help professional researchers understand the history and the future development of the field.

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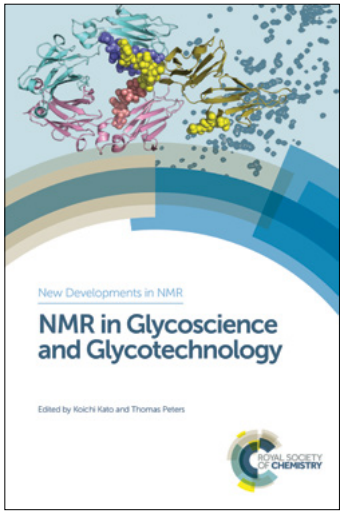

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Rainer Kimmich University of Ulm, Germany

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Systems, Methods and Applications

N Jon Shah Forschungszentrum Juelich GmbH, Germany

The combination of two leading imaging techniques – magnetic resonance imaging (MRI) and positron emission tomography (PET) – has recently been a driver of research and clinical application. The hybrid instrument is capable of acquiring both datasets simultaneously and this affords a number of advantages ranging from the acquisition of two datasets in the normal time required for one through to novel applications. This book describes the issues involved in bringing together the two techniques into one machine and all the advantages in doing so. Novel applications in brain imaging are presented and the combined technique is poised to have a large impact on the industry. Aimed at students and scientists entering the field, it will provide practical details from experts working in the area.

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In-cell NMR Spectroscopy

From Molecular Sciences to Cell Biology

Yutaka Ito Tokyo Metropolitan University, Japan | **Volker Dötsch** University of Frankfurt, Germany | **Masahiro Shirakawa** Kyoto University, Japan

In-cell NMR spectroscopy is a relatively new field. Despite its short history, recent in-cell NMR-related publications in major journals indicate that this method is receiving significant general attention. No informative books specifically focused on in-cell NMR have been published yet. This book provides detailed descriptions covering the background of in-cell NMR, methods on cell biological techniques and NMR spectroscopy, as well as applications, and future perspectives. Researchers in biochemistry, biophysics, molecular biology, cell biology, structural biology as well as NMR analysts interested in biological applications will all find this book valuable reading.

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Modern Methods in Solid-State NMR

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Paul Hodgkinson Durham University, UK

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Non-conventional NMR Detection Methods

Xin Zhou Wuhan Institute of Physics and Mathematics (WIPM), China

NMR and MRI have been applied to various disciplines, but the sensitivity of NMR is intrinsically lower comparing to other analytical or imaging methods. This has caused many non-conventional developments looking at improving NMR sensitivity, such as SQUID (Superconducting QUantum Interference Device), atomic magnetometer, MRFM (Magnetic Resonance Force Microscopy) and remote detection. The NMR detection threshold has been largely boosted by these methods, resulting in the emergence of novel applications. This book will describe the recent advances in non-conventional NMR detection methods and their applications, and also summarise the challenges facing the next generation of users. Aimed at both academia and industry, readers should buy this publication to broaden their knowledge beyond conventional NMR.

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NMR of Gels

Shingo Matsukawa Tokyo University of Marine Science and Technology, Japan | **Tom Brenner** Sophia University, Japan

NMR measurement of gels is complex due to their lack of rigidity. This book has been developed to discuss new developments in NMR measurements for gels and soft materials. Gels are encountered in a broad range of products and applications eg nappies, drug delivery systems and many foods where texture is important. NMR measurements for gels gives information on gel structure and mobility helping with the quality assessment of products. Researchers in soft materials both in academic and industrial research environments should buy this publication to broaden their knowledge.

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Characterizing Natural Products and Other Organic Compounds

Darcy C Burns University of Toronto, Canada | **William F Reynolds** University of Toronto, Canada

This book is aimed at informing organic chemists and natural products chemists on the use of NMR for structure elucidation to enable them to ensure they yield the most reliable possible data in the minimum possible time. It covers the latest pulse sequences, acquisition and processing methods, practical areas not covered in most texts eg detailed consideration of the relative advantages and disadvantages of different pulse sequences, choosing acquisition and processing parameters to get the best possible data in the least possible time, pitfalls to avoid and how to minimize the risks of getting wrong structures. Useful in industrial, pharma or research environments, this reference book is for anyone involved with organic chemistry research and, in particular, natural products research requiring advice for getting the best results from the NMR facilities.

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Paramagnetism in Experimental Biomolecular NMR

Claudio Luchinat University of Florence | **Giacomo Parigi** University of Florence, Italy | **Enrico Ravera** University of Florence, Italy

Paramagnetic NMR is a growing technique which represents an increasingly important tool for the investigation of biomolecules. This book presents an update and overview of the paramagnetic NMR effects as well as protocols for practical implementation of state-of-the-art experiments. All experiments are backed up by a solid theoretical foundation. Compiled by experts in the field, this book has international appeal for researchers as well as students interested in magnetic resonance and structural biology who require experimental support.

Hardback | 300 pages | 9781788010863 | 2018 | £159.00 | $223.00

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Lizhi Xiao China University of Petroleum, Beijing, China

Describing comprehensively the development and applications of NMR to oil and gas exploration, this book will bring the literature up to date as it has developed very quickly in the last two decades. Outlining new methodologies, it will provide 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 hot and important topic.

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D Brynn Hibbert University of New South Wales, Australia

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Robert McDowall Director, R.D.McDowall Ltd

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Anthropogenic and Natural Occurrence in the Environment, 2nd edition

Stephen Mudge Exponent, UK | **Scott Belanger** Proctor and Gamble | **Paul DeLeo** The Soap and Detergent Association

Fatty alcohols are mainly used in the production of detergents and surfactants. They are components also of cosmetics, foods, and as industrial solvents. This expanded edition includes new information regarding synthesis together with many aspects relating to the inclusion of these compounds in the EU bio-based economy drive. Significant advances have been made since the first edition and no other book brings together all the disparate information regarding this group of chemicals that are of interest to environmental scientist (as biomarkers), to industry (as surfactants) and regulators.

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Near Infrared Spectroscopy and Imaging for Cultural Heritage

Matija Strlič University College London, UK | **Tom Fearn** University College London, UK

Near infrared (NIR) spectroscopy offers a non-destructive, non-invasive, and portable solution for many problems associated with heritage material identification and characterisation. This book is intended as reference to this emerging technique for students and professionals wishing to adopt this ideal tool for rapid art and heritage collection surveys or for the conservation of heritage materials. The editors have brought together contributors at the forefront of this new technique, presenting its application to a wide range of cultural, historic, and archaeological materials.

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Raman Spectroscopy in Archaeology and Art History

Volume 2

Peter Vandenabeele University of Ghent, Belgium | **Howell Edwards** University of Bradford, UK

Ten years after the first volume, this book highlights the important contribution Raman spectroscopy makes as a non-destructive method for characterising the chemical composition of objects with archaeological and historical importance. The original book was ground-breaking in its concept, but the last ten years has seen some advancement into new areas, consolidation of some of the older ones and novel applications involving portable instrumentation, on site in museums and in the field. This new volume maintains the topic at the cutting edge with the editors having approached prominent contributors to provide case-studies. Aimed at scientists involved in conservation, conservators/curators who want to better understand their collections at a material level and researchers of cultural heritage.

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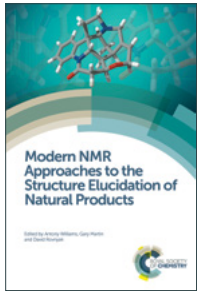

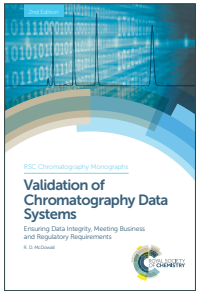

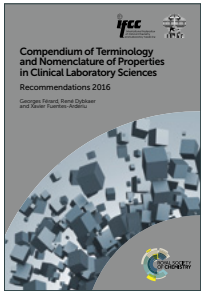

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