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Did you know, the chemical processes taking place in space could be related to the origins of life? Aimed at chemistry students, *Astrochemistry* discusses this fascinating topic – and so much more.

If you are looking for something more down to earth, relax with the chemistry of tea in *Steeped* or stimulate your mind with the puzzle book *Elementary!*. Our student readers will also enjoy new editions of *Food: The Chemistry of its Components, Natural Product Biosynthesis* and *The Chemistry of Textile Fibres*.

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Happy reading

Serin Dabb Head of Books

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ROYAL SOCIETY OF CHEMISTRY

Chemistry Student Guides

About the series

ISSN 2632-9867

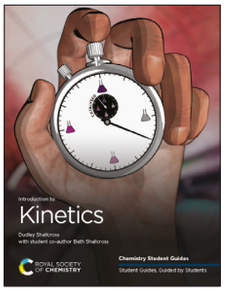
Editor-in-chief
Julie Macpherson University of Warwick, UK

Addressing a challenging concept in undergraduate chemistry, each book in the Chemistry Student Guides series aims for the reader to achieve a 'light bulb' moment. Once a concept is understood, the reader will no longer need to use rote memorisation techniques, but instead will have the confidence to see how the learning can be applied across a range of problems, in order to obtain the correct answers.

Each book receives student input so it targets exactly where students struggle. Essential student involvement, combined with high editorial engagement from the Board, means that each title is closely tuned to audience needs. The books can be used as a supplement or alternative to core textbooks, and will also work well as a revision tool during exam time.

Introduction to Kinetics

Beth Shallcross University of Manchester, UK | **Dudley Shallcross** University of Bristol, UK



Paperback | 175 pages
9781788012188 | 2023
£19.99 | $27.99
€24.99 | CA$37.99

ISBN 978-1-78801-218-8

Kinetics, the rate at which a chemical reaction takes place, underpins all areas of chemistry, from drug action in the human body to the formation of the stratospheric ozone hole. This book will enhance your understanding of kinetics in both the gas and liquid phase, beginning with the simple concept of collision theory and building up from there. By exploring and understanding the underlying concepts in chemical kinetics including order of reaction, rate constant, steady state approximation, collision and transition state theory, you will be able to tackle a range of problems in differing contexts and see strong similarities in approach. There is an emphasis on learning by working through examples and by the end of the book, you will have built confidence in your understanding and application of each concept discussed. We assume that the student has some understanding of pre-university chemistry but we will start by recapping ideas developed about kinetics that are typically derived at this pre-university stage.

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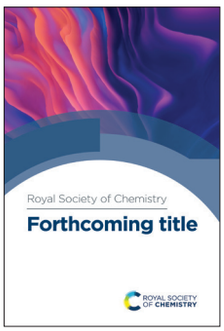
Chemistry Student Guides

Introduction to Polymer Chemistry

David Haddleton University of Warwick, UK | **Sebastien Perrier** University of Warwick, UK | **C Remzi Becer** University of Warwick, UK | **Stefan A F Bon** University of Warwick, UK | **Lei Tao** Tsinghua University, China



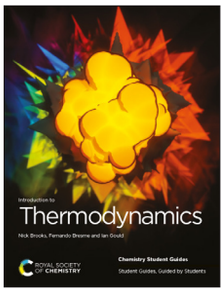
Paperback | 200 pages
9781839166006 | 2023
£19.99 | $27.99
€24.99 | CA$37.99

ISBN 978-1-83916-600-6

For any student who has ever struggled to understand polymer chemistry, this book is for you. Polymers are an essential and growing aspect of chemistry research. Almost half of jobs in chemistry are polymer related from traditional industries such as plastics, films, inks and adhesives to less obvious applications such as cosmetics, agrochemistry and pharmaceutical delivery. Although polymers and plastics have transformed every aspect of our life, they have also made a negative impact on our environment and there are challenges that must be met. In this book we provide readers with a solid foundation in polymer chemistry, providing a detailed overview of different polymer types, a portfolio of synthesis routes to fabricate polymers and aid students in understanding the contribution of macromolecular structure to materials properties. With an eye on the scientific challenges that lie ahead for future chemists, we also consider the advantages and disadvantages of recyclability and degradability and instil a mindset into students to tackle the issues facing their generation. They will learn how to design materials with appropriate chemistry to meet required applications while dealing with environmental challenges. There are worked examples and problem sets to provide plenty of practise material to build proficiency. We also include insights from real students, which identify common problem areas and provide the prompts that helped them to overcome these. Chemistry Student Guides are written with current students involved at every stage, guiding the books towards the most challenging aspects of the topic.

Introduction to Thermodynamics

Nick Brooks Imperial College London, UK | **Fernando Bresme** Imperial College London, UK | **Ian Gould** Imperial College London, UK



Paperback | 200 pages
9781788014137 | 2023
£19.99 | $31.99
€23.99 | CA$31.99

ISBN 978-1-78801-413-7

Thermodynamics can be used to understand everything from how a drug binds to its site of action through to the efficiency of jet engines. While it finds applications in all areas of science, technology and engineering, the breadth of thermodynamic applications can be one of the biggest challenges in grasping a solid understanding of its core concepts. In this book we explore how thermodynamics can help us predict how the properties of materials and mixtures change during chemical reactions and, alongside this, show how the underlying molecular structures, interactions and entropy determine the reactions. We have focussed on relating properties that we routinely measure during chemistry experiments (such as the heat adsorbed/released, or the work extracted from a chemical process) to the behaviour of these systems at a molecular scale (for example the organisation of molecules), providing a practical approach to understanding the importance of thermodynamics in chemistry. These concepts will also be helpful to students in other areas such as physics and engineering. Throughout the book, real world examples taken from all areas of chemistry help to illustrate applications of the ideas that are explored. There are worked examples of how to solve chemical problems using thermodynamic concepts and chances to test your understanding. Chemistry Student Guides are written with current students involved at every stage, guiding you towards the most challenging aspects of the topic.

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Coordination Chemistry Fundamentals

About the series

ISSN 2635-1498

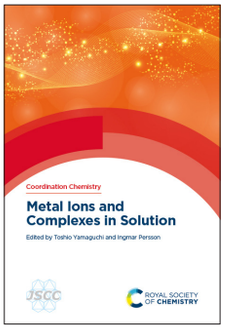
Series editors
Makoto Fujita The University of Tokyo, Japan | **Naohito Ishikawa** Osaka University, Japan | **Osamu Ishitani** Tokyo Institute of Technology, Japan | **Hiroshi Nakazawa** Osaka Metropolitan University, Japan | **Hiroki Oshio** The University of Tsukuba, Japan | **Toshio Yamaguchi** Fukuoka University, Japan | **Hideki Masuda** The Nagoya Institute of Technology and Aichi Institute of Technology, Japan

In collaboration with the Japan Society of Coordination Chemistry (JSCC), this series provides a comprehensive pedagogic treatment of all the major coordination chemistry topics students will encounter during their undergraduate and graduate chemistry degrees. These are English translations of proven teaching tools written and delivered by JSCC.

Metal Ions and Complexes in Solution

Toshio Yamaguchi Fukuoka University, Japan | **Ingmar Persson** Swedish Agriculture University, Sweden

Based on a translated Japanese title published in 2012, this book provides fundamental aspects of experimental and computational methods, the properties and structure of solvents, ion solvation and equilibria and reactions of metal complexes in solution. It includes the state-of-the-art details on metal complexes in newly developing sustainable liquids and applications in real life. Appealing to researchers working in coordination chemistry, including students and industrialists, it uses exercises, tables and figures to help the reader with their understanding of the topic.



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ISBN 978-1-83916-809-3

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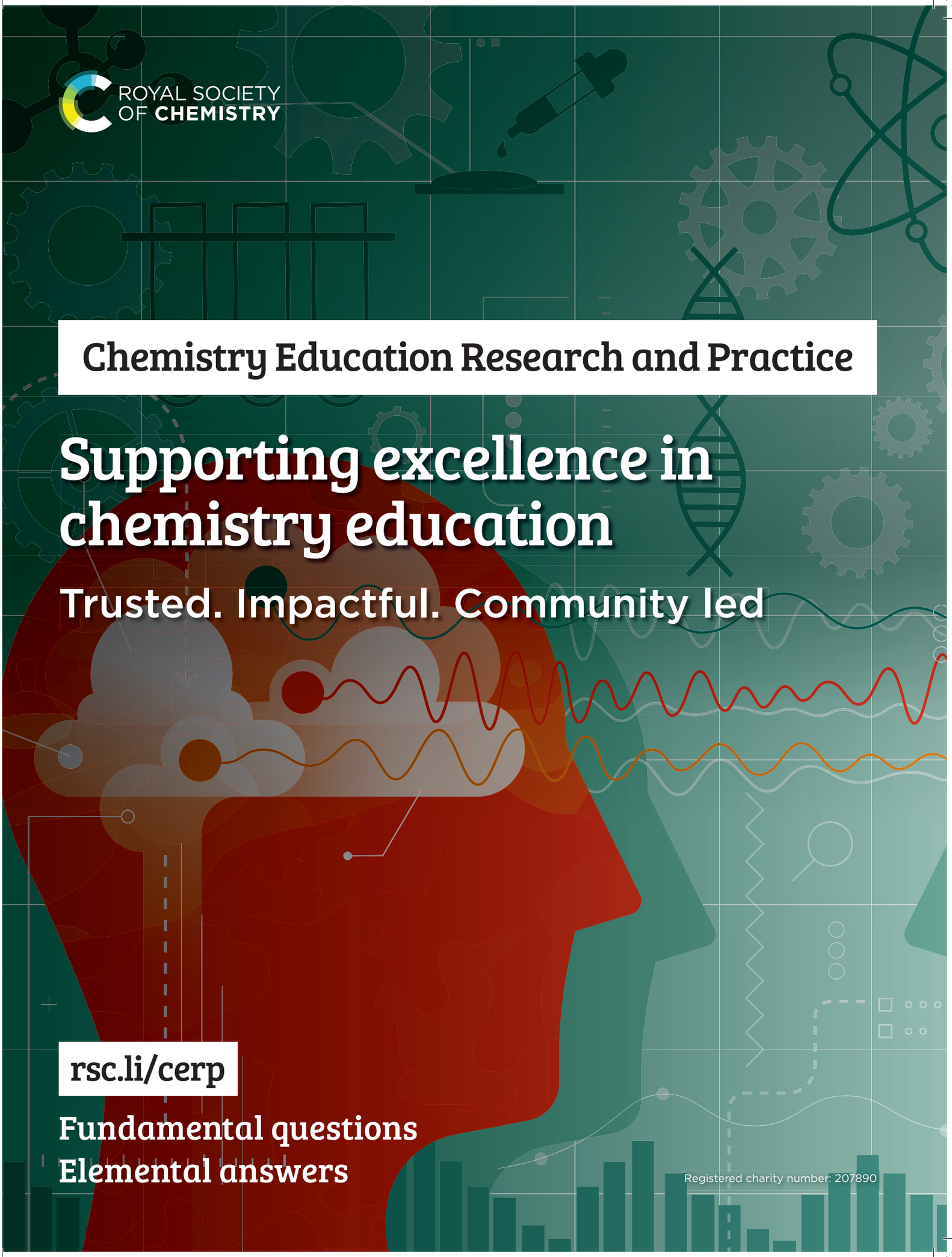

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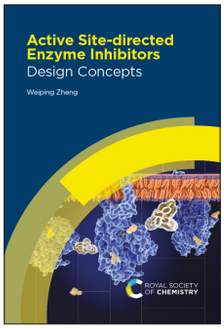
Active Site-directed Enzyme Inhibitors

Design Concepts

Weiping Zheng



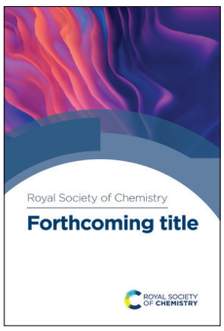
Hardback | 300 pages
9781839161971 | 2023
£125.00 | $175.00
€155.00 | CA$238.00

ISBN 978-1-83916-197-1

Natural enzyme inhibition is an important negative feedback control, particularly for managing intracellular concentrations of amino acids, vitamins, and other substances. This control can be effectively utilised and several clinically important interactions between pharmaceuticals result from enzyme inhibition and, as such, enzyme inhibitors are a valuable source of potential new antibiotics, chemotherapy agents and other pharmaceuticals. This handbook is an ideal introduction to up-to-date concepts in active site-directed enzyme inhibition, succinctly yet comprehensively covering currently known concepts in active site-directed enzyme inhibitor design. Each concept is discussed in turn with a delineation of its mode of working and its applications with different types of enzymatic reactions.
Active Site-directed Enzyme Inhibitors will provide readers with a quick and efficient reference for obtaining effective active site-directed inhibitors for any of the enzymatic reactions under study without a need to resort to costly library screening- and biostructure-based techniques. This handbook is ideal as an immediate resource for researchers to consult, or for students to supplement their study in molecular biology, pharmacology, and medicinal chemistry.

An Introduction to Polymeric Biomaterials

Stephen Rimmer University of Bradford, UK | **Maria Katsikogianni** University of Bradford, UK



Hardback | 300 pages
9781788016902 | 2023
£70.00 | $95.00
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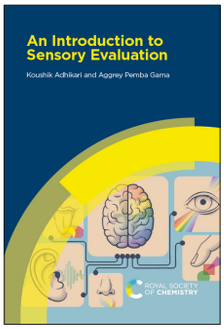
ISBN 978-1-78801-690-2

Written for course use, this introductory textbook presents the field of polymers for biomedical applications, such as implants, drug delivery systems, dressings, diagnostics and biosensors amongst others. It explores natural and synthetic polymers, hydrogels, particles and fibres, bulk materials and surfaces, permanent or biodegradable, bioinert or bioactive and the polymers physicochemical properties that affect their interactions with proteins, cells and bacteria.

An Introduction to Sensory Evaluation

Koushik Adhikari University of Georgia, USA | **Aggrey Pemba Gama** Lilongwe University of Agriculture and Natural Resources, Malawi



Hardback | 320 pages
9781839161421 | 2023
£70.00 | $95.00
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ISBN 978-1-83916-142-1

Sensory analysis is an interdisciplinary topic encompassing the description, measurement and interpretation of characteristics that can be perceived by human sensory organs. This comprehensive textbook covers the basic information of sensory analysis, removing the need for multiple reference books. Aimed primarily, but not exclusively, towards sensory courses in a food science curriculum, it equips readers with the skills to conduct scientifically sound and statistically valid evaluations including hands on experience with data collection, analysis and interpretation.

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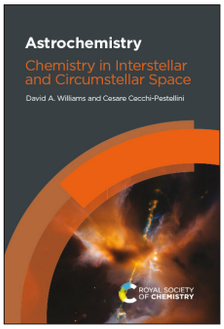
Textbooks

Astrochemistry

Chemistry in Interstellar and Circumstellar Space

David A Williams University College London, UK | **Cesare Cecchi-Pestellini** Osservatorio Astronomico di Palermo, Italy



Paperback | 222 pages
9781839163968 | 2023
£42.99 | $59.99
€53.99 | CA$82.00

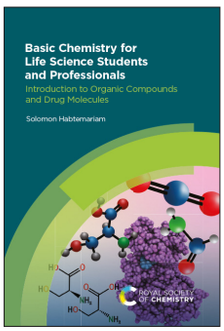
ISBN 978-1-83916-396-8

Have you ever wondered how the chemical processes taking place in space relate to the origins of life? The authors of this book, both experienced astrochemists, embark on a discussion to find the answers to this question and more. Prefaced with a general introduction to astrochemistry for chemistry students, the authors explore chemistry occurring in the universe from its very early beginnings until the present era. This book provides the tools to enable chemistry students to make their own computational investigations of astrochemistry and directs study across the chemical sciences and astronomy. Focussing on fundamental processes, this book is a useful teaching aid.

Basic Chemistry for Life Science Students and Professionals

Introduction to Organic Compounds and Drug Molecules

Solomon Habtemariam University of Greenwich, UK



Paperback | 480 pages
9781839167874 | 2023
£45.00 | $62.00
€55.00 | CA$85.00

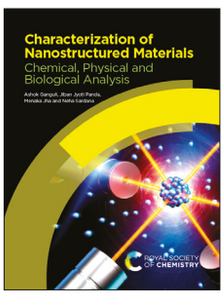
ISBN 978-1-83916-787-4

Organic chemistry plays a vital role in the pharmaceutical industry, knowledge of organic compounds is used to inform research and further the discovery and development of new medicines. Likewise, organic chemistry is fundamental to understanding biological reactions, mechanisms and all life sciences in general. **Basic Chemistry for Life Science Students and Professionals** is an ideal introduction to organic chemistry in the context of the life sciences and pharmacy related disciplines; utilising drug molecules to illustrate the chemical basis of their efficacy and interaction with biological targets. This book builds upon the basic concepts of organic chemistry to develop the reader's understanding of the importance of organic chemistry to the life sciences from natural product sources, their synthesis, and approaches to drug discovery. Ideal for undergraduate students in the natural sciences this book is also an excellent primer for postgraduates in a variety of disciplines including forensic science and allied-health programmes as well as professionals working in related fields seeking a comprehensive introduction to organic chemistry in the context of pharmaceuticals.

Characterization of Nanostructured Materials

Chemical, Physical and Biological Analysis

Ashok Ganguli IIT Delhi, India | **Jiban Jyoti Panda** Institute of Nano Science and Technology, India | **Menaka Jha** Institute of Nano Science and Technology, India | **Neha Sardana** IIT Jodphur, India



Hardback | 375 pages
9781788011853 | 2023
£60.00 | $85.00
€72.00 | CA$115.00

ISBN 978-1-78801-185-3

Written with an interdisciplinary audience in mind, this textbook provides a broad overview of characterisation techniques applied to nanomaterials. Suitable for advanced undergraduate and graduate courses, the authors bring a holistic approach to the subject, balancing physics and materials science perspectives with chemical and biological aspects, ensuring it appeals to a diverse classroom readership. Based on a successful course by the authors, students will form a clear understanding between fundamentals and applications across a broad range of tools, encompassing chemical characterisation, surface characterisation, biomolecular characterisation and non-invasive testing of materials inside living and non-living systems.

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Textbooks

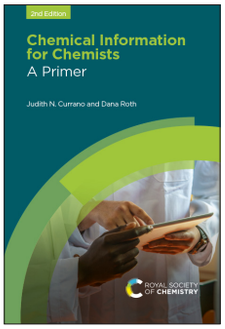
Chemical Information for Chemists

A Primer

2nd Edition

Judith N Currano University of Pennsylvania, USA | **Dana Roth** California Institute of Technology, USA

This is a chemical information book aimed specifically at practicing chemists. Written and edited by experts in the field, this edition has been completely updated with new information sources and new methods of searching have been introduced reflecting the advances in the field. It is an ideal book for chemists who lack a chemical information professional able to teach basic and intermediate techniques of retrieving and evaluating information. Aimed at students on undergraduate and graduate courses, it could also be a useful guide to new information specialists who are facing the challenging diversity of chemical literature.



Paperback | 400 pages
9781839161919 | 2023
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ISBN 978-1-83916-191-9

Controlled Drug Analysis

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

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. Aimed at academics delivering forensic science courses in particular, it could also be used by chemistry, biochemistry, criminalistics, criminology and law and policing students on MSc forensic science courses and postgraduate research candidates.

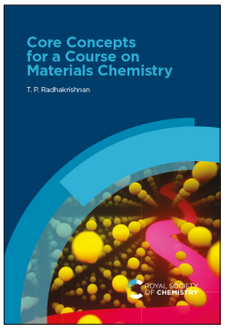
Hardback | 350 pages
9781788015349 | 2023
£60.00 | $85.00
€75.00 | CA$115.00

ISBN 978-1-78801-534-9

Core Concepts for a Course on Materials Chemistry

T P Radhakrishnan University of Hyderabad, India

Anyone who has taught materials chemistry will be aware that it is an expansive topic. Whilst this makes it exciting, it can also overwhelm students who end up lost in the detail. This book provides the antidote. Aimed at advanced undergraduate and graduate students, **Core Concepts for a Course on Materials Chemistry** is a distillation of the fundamental topics born out of the author's 30 years of experience teaching the subject.



Hardback | 240 pages
9781839166693 | 2023
£35.99 | $49.99
€44.99 | CA$69.00

ISBN 978-1-83916-669-3

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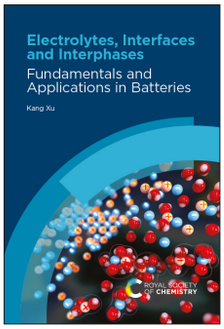
Textbooks

Electrolytes, Interfaces and Interphases

Fundamentals and Applications in Batteries

Kang Xu CCDC US Army Research Laboratory, USA

Research in electrochemical energy storage has witnessed exponential growth in recent years, with rapid development in new electrolyte systems. Authored by a leader in the field, this authoritative textbook is for those who are entering the area of electrochemical energy storage research. Chapters will first cover the fundamental knowledge before moving onto recent important findings in the field. Suitable for advanced undergraduates and postgraduate students studying electrochemical energy storage, electrochemistry, materials science and engineering, as well as researchers new to the subject.



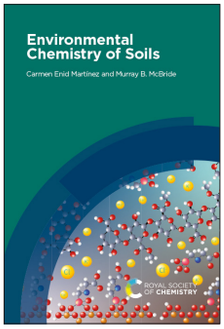
Hardback | 545 pages
9781839163104 | 2023
£90.00 | $125.00
€110.00 | CA$170.00

ISBN 978-1-83916-310-4

Environmental Chemistry of Soils

Carmen Enid Martínez Cornell University, USA | **Murray B McBride**

Environmental Chemistry of Soils provides an understanding of soil chemical properties and processes at a fundamental scientific level. Soil chemical processes are described using chemical principles and laws that permit an appreciation and prediction of chemical behaviour. Within each topic, the book stresses concepts that build from current knowledge of inorganic, organic and physical chemistry, as well as surface science. By explaining the fundamental role of these soil chemical properties and processes to terrestrial systems, both agricultural and natural ecosystems, this book provides a great resource for anyone studying environmental science with an interest in soils.



Hardback | 400 pages
9781788017923 | 2023
£85.00 | $115.00
€105.00 | CA$160.00

ISBN 978-1-78801-792-3

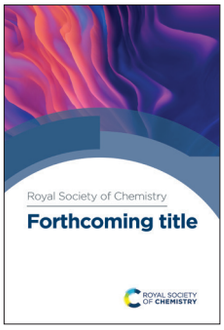
Food

The Chemistry of its Components

7th Edition

Tom Coultate

This new edition of the highly successful textbook provides a source of detailed information on the chemistry of food. The book investigates food components which are present in large amounts (carbohydrates, fats, proteins, minerals and water) and also those that occur in smaller amounts (colours, flavours, vitamins and preservatives). Food borne toxins, allergens, pesticide residues and other undesirables are also given detailed consideration. Attention is drawn to the nutritional and health significance of food components. A go-to text for students and teachers of food science and nutrition and for those interested in food composition.



Paperback | 630 pages
9781839168147 | 2023
£42.99 | $59.99
€53.99 | CA$82.00

ISBN 978-1-83916-814-7

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Textbooks

Fundamentals of Inorganic and Organometallic Polymer Science

Christian Agatemor University of Miami, USA | **Kajal Ghosal** Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, India | **Prashanth Poddutoori** University of Minnesota, USA | **Peter J S Foot** Kingston University, London, UK

Inorganic and organometallic polymers feature many attractive properties that are useful for the design of diverse functional materials. Emphasising concepts that inform polymer design, synthesis and applications, readers of this book will gain a complete understanding of the introduction to inorganic and organometallic polymer science that will further their studies in materials science, chemistry and engineering.

Hardback | 500 pages
9781788015905 | 2023
£90.00 | $126.00
€101.00 | CA$154.00

ISBN 978-1-78801-590-5

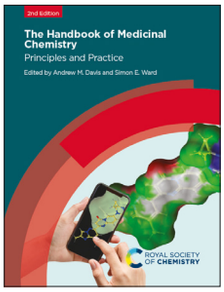
The Handbook of Medicinal Chemistry

Principles and Practice

2nd Edition

Simon E Ward Cardiff University, UK | **Andrew Davis** AstraZeneca, UK

Completely revised and updated, the second edition of **The Handbook of Medicinal Chemistry** draws together contributions from autorotative practitioners to provide a comprehensive overview of the field as well as insight into the latest trends and research. While communicating core principles, the book also places the discipline within the context of the burgeoning platform of new modalities now available to drug discovery. It also highlights the role chemistry has to play in wider target validation and translational technologies. An ideal companion for students in medicinal chemistry and drug discovery and development, this is a carefully curated compilation of writing from global experts using their broad experience of medicinal chemistry, project leadership and drug discovery and development from an industry, academic and charity perspective to provide unparalleled insight into the field.



Hardback | 1173 pages
9781788018982 | 2023
£95.00 | $130.00
€115.00 | CA$180.00

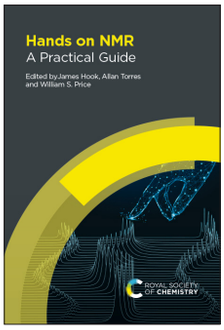
ISBN 978-1-78801-898-2

Hands on NMR

A Practical Guide

James Hook University of New South Wales, Australia | **Allan Torres** Western Sydney University, Australia | **William S Price** Western Sydney University, Australia

Presenting important practical aspects of nuclear magnetic resonance (NMR) spectroscopy, this book explains and helps facilitate the successful set up of a wide variety of NMR experiments. It will enlighten readers with the relevant information on the basic concepts in NMR, how it works and how to trouble shoot artefacts that may be encountered. Bringing books that present practical NMR up to date, this book fills the gap in the literature and provides a new comprehensive practical NMR book for teaching and research at all levels – graduates, postgraduates, industry and research.



Hardback | 500 pages
9781788010887 | 2023
£86.99 | $122.00
€108.00 | CA$165.00

ISBN 978-1-78801-088-7

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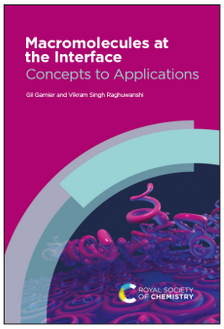
Textbooks

Macromolecules at the Interface

Concepts to Applications

Gil Garnier Monash University, Australia | **Vikram Singh Raghuwanshi** Monash University, Australia



Paperback | 250 pages
9781788012256 | 2023
£40.00 | $56.00
€50.00 | CA$76.00

ISBN 978-1-78801-225-6

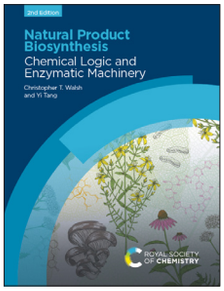
This book portrays, clearly and simply, how and why macromolecules adsorb at the interface, the basic mechanisms and forces involved, what systems of macromolecules there are at the interface, how polymer conformations vary with environment and how control of macromolecules at the interface is used in traditional and emerging fields. Written for advanced level students and researchers in academia and industry, the effect of macromolecules at the interface is presented and linked to applications. Following a descriptive approach, the authors bring the literature up-to-date and more accessible.

Natural Product Biosynthesis

Chemical Logic and Enzymatic Machinery

2nd Edition

Christopher T Walsh Stanford University, USA | **Yi Tang** University of California Los Angeles, USA



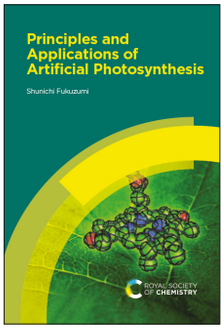
Hardback | 773 pages
9781839165641 | 2023
£99.99 | $135.00
€125.00 | CA$190.00

ISBN 978-1-83916-564-1

Authored by leading experts in the enzymology of natural product biosynthesis, this completely revised and updated edition provides a description of the types of natural products, the biosynthetic pathways that enable the production of these molecules and an update on the discovery of novel products in the post-genomic era. The approach of this book is to codify the chemical logic that underlies each natural product structural class as they are assembled from the building blocks of primary metabolism. This second edition integrates many new findings into the sets of principles of the first edition that parsed categories of natural product chemistries into the underlying enzymatic mechanisms and the catalytic machinery for building the varied and complex end product metabolites. New chapters include evaluation of a core set of thermodynamically activated but kinetically stable metabolites that power both primary and secondary metabolic pathways. Also, after decades of uncertainty about the existence of various pericyclase classes, a series of genome mining, heterologous expression and enzymatic activity characterisation have validated a plethora of pericyclases over the past decade. This text serves as a reference point for chemists of every subdiscipline, including synthetic organic chemists and medicinal chemists.

Principles and Applications of Artificial Photosynthesis

Shunichi Fukuzumi Osaka University, Japan



Paperback | 350 pages
9781788014311 | 2023
£80.00 | $110.00
€100.00 | CA$150.00

ISBN 978-1-78801-431-1

Harnessing light energy from the sun is already possible and widely used to produce electricity via photovoltaic cells. However, there is a fundamental issue in finding a suitable way of storing electricity. Photosynthesis in green plants locks energy from the sun within the chemical bonds of glucose molecules, not only producing energy but storing it. Molecular mimicry of the fundamental processes occurring in photosynthesis has thus attracted much attention. Penned by a single expert in the field, this book provides a comprehensive review of the molecular-based artificial photosynthesis systems and offers a unified view and future perspective of real artificial photosynthesis.

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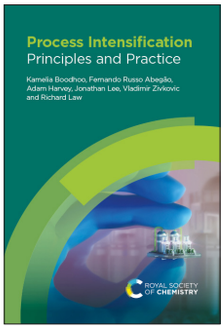
Textbooks

Process Intensification

Principles and Practice

Kamelia Boodhoo Newcastle University, UK | **Fernando Russo Abegão** University of Newcastle, UK | **Adam Harvey** University of Newcastle, UK | **Jonathan Lee** University of Newcastle, UK | **Vladimir Zivkovic** University of Newcastle, UK | **Richard Law** University of Newcastle, UK

Beginning with basic chemical engineering principles for chemists and those who need a refresher, this textbook aims to teach process intensification to newcomers in green chemistry, as well as chemical engineering students. Based on the authors' own courses and teaching experience, with worked examples, end-of-chapter learning outcomes and problem sets with solutions, plus real-world case studies scattered throughout, this text is ideal for advanced undergraduate and graduate course use.



Hardback | 420 pages
9781788015400 | 2023
| £60.00 | $85.00
€75.00 | CA$115.00

ISBN 978-1-78801-540-0

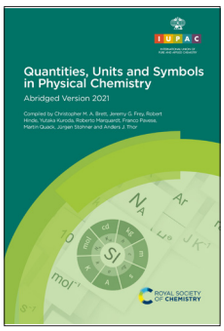
Quantities, Units and Symbols in Physical Chemistry

Abridged Version 2021

4th Edition

Christopher M A Brett Universidade de Coimbra, Portugal | **Jeremy G Frey** University of Southampton, UK | **Robert Hinde** The University of Tennessee, USA | **Yutaka Kuroda** Tokyo University of Agriculture and Technology, Japan | **Roberto Marquardt** University Louis Pasteur, France | **Franco Pavese** Instituto Nazionale di Ricerca Metrologica, Italy | **Martin Quack** Laboratorium fur Physikalische Chemie der ETH Zurich, Switzerland | **Juergen Stohner** Zurich University of Applied Sciences, Switzerland | **Anders J Thor** SIS Swedish Standards Institute, Sweden

Prepared by the IUPAC Physical Chemistry Division this abridged version of the definitive manual is designed to improve the exchange of scientific information among the readers in different disciplines and across different nations. This book has been systematically brought up to date to reflect the increasing volume of scientific literature and terminology and serves as a helpful guide to the widely used terms and symbols together with understandable definitions and explanations of best practice. It echoes the experience of the contributors with the previous editions and the comments and feedback have been integrated into this essential resource.



Paperback | 120 pages
9781839161506 | 2023
| £30.99 | $42.99
€38.99 | CA$60.00

ISBN 978-1-83916-150-6

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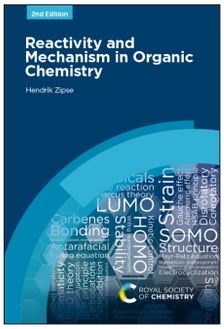
Textbooks

Reactivity and Mechanism in Organic Chemistry

2nd Edition

Hendrik Zipse Ludwig-Maximilians-Universität München, Germany



Paperback | 196 pages
9781839167430 | 2023
| £35.00 | $49.00
€45.00 | CA$65.00

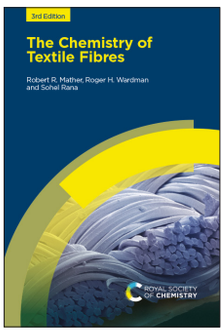
ISBN 978-1-83916-743-0

Completely revised and updated, this second edition is an ideal introduction to the quantitative description of organic reactivity for students in undergraduate and master's chemistry programmes. The book proceeds logically from qualitative molecular orbital theory as a tool for the description of bonding phenomena to combining this with thermochemical data to rationalise concepts such as molecular strain and hyperconjugation. Next, transition state theory, for examining organic reactivity phenomena, is introduced and its relation to energy surfaces and simple rate equations is discussed. On this basis, more specific reactivity concepts commonly used in organic chemistry are explored such as the Bell–Evans–Polanyi principle, Marcus theory, hard and soft acids and bases (HSAB) principle, Hammett correlations, the Mayr–Patz equation and frontier molecular orbital (FMO) theory. How these reactivity models are applied is demonstrated for pericyclic reactions and selected rearrangement reactions involving transient intermediates such as radicals, diradicals or carbocations, and for reactions involving classical electrophile/nucleophile combinations.

The Chemistry of Textile Fibres

3rd Edition

Robert R Mather Power Textiles Limited, UK | **Roger H Wardman** Formerly Heriot-Watt University, UK | **Sohel Rana** University of Huddersfield, UK



Hardback | 500 pages
9781839162800 | 2023
£55.00 | $77.00
€68.75 | CA$104.50

ISBN 978-1-83916-280-0

Textiles are ubiquitous materials that many of us take for granted in our everyday lives. We rely on our clothes to protect us from the environment, for modesty, to enhance our appearance and to reflect our personality. Previous revised editions have highlighted the trend towards the synthesis of monomers to make synthetic fibres from renewable sources. This third edition continues to drive towards sustainability, introducing the strategic importance of fibre chemistry which has increased significantly in recent years. Providing a comprehensive overview of this field aimed at a level appropriate for A-level students and first-year undergraduates, this book is a must for textile science and technology courses.

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Advances in Chemistry Education Series

About the series

ISSN 2056-9335

Editor-in-chief
Keith S Taber University of Cambridge, UK

Series editors
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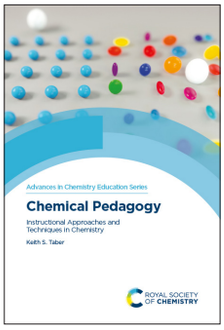
Books in this series review developments in areas of international chemistry education or report on a single educational context where the work has clear international significance; examine formal education, informal education, teacher education/development or public understanding of chemistry; and explore innovations in chemical education practice where suitable evidence of research-based evaluation is included. Topics covered include approaches to teaching chemistry and chemistry topics; the use of technology in chemistry teaching and learning; assessment of learning in chemistry education; chemistry in the curriculum; chemistry teacher preparation and development; initiatives to improve public understanding of chemistry; and developments in research methodology as applied in chemistry education. The series provides researchers and postgraduates with volumes of high quality and significance in the field of chemistry education research.

Chemical Pedagogy

Instructional Approaches and Techniques in Chemistry

Keith S. Taber University of Cambridge, UK

Chemical Pedagogy introduces core principles – from research into human cognition and learning – to provide a theoretical perspective on how to best teach for engagement and understanding. An examination of some of the more contentious debates about pedagogy leads to the advice to seek 'optimally guided instruction' which balances the challenge offered to learners with the level of support provided. This provides a framework for discussing a wide range of teaching approaches and techniques that have been recommended to those teaching chemistry across educational levels: including both those intended to replace 'from the front' and others that can be built into traditional lecture courses to enhance the learning experience.



Hardback | 300 pages
9781788015615 | 2023
| £99.99 | $140.00
€125.00 | CA$190.00

ISBN 978-1-78801-561-5

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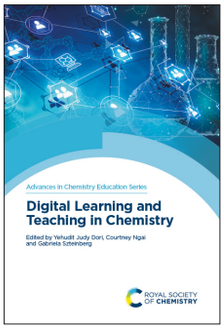
Advances in Chemistry Education Series

Digital Learning and Teaching in Chemistry



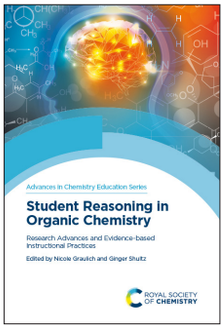
Hardback | 275 pages
9781839165238 | 2023
£99.99 | $140.00
€125.00 | CA$190.00

Yehudit Dori Technion – Israel Institute of Technology, Israel | **Courtney Ngai** Colorado State University, USA | **Gabriela Szteinberg** Washington University in St. Louis, USA

Education is always evolving, and most recently has shifted to increased online or remote learning. **Digital Learning and Teaching in Chemistry** compiles the established and emerging trends in this field, specifically within the context of learning and teaching in chemistry. This book shares insights across four major themes: Best practices of teaching and learning digitally, digital learning platforms, virtual visualisation and laboratory to promote learning in science, digital assessment and building communities of learners and educators. The authors are chemistry instructors and researchers from nine countries, contributing an international perspective on digital learning and teaching in chemistry.

Student Reasoning in Organic Chemistry

Research Advances and Evidence-based Instructional Practices



Hardback | 358 pages
9781839164910 | 2023
£99.99 | $140.00
€125.00 | CA$190.00

Nicole Graulich Justus-Liebig-University Gießen, Germany | **Ginger Shultz** University of Michigan, USA

Reasoning about structure-reactivity and chemical processes is a key competence in chemistry. But students of organic chemistry in particular experience difficulty appropriately interpreting organic representations and reasoning about the underlying causality of organic mechanisms. This book brings together leading research groups to highlight recent advances in chemistry education research with a focus on the characterisation of students' reasoning and their representational competencies, as well as the impact of instructional and assessment practices in organic chemistry.

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Elemental answers

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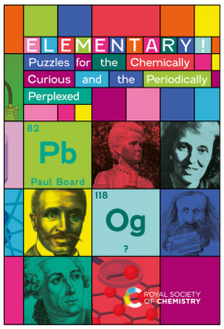
Popular Science

Elementary!

Puzzles for the Chemically Curious and the Periodically Perplexed

Paul Board Freelance Writer, UK

Whether tritium or trivium, this periodically puzzling collection of over 400 different quiz questions, word games and brain teasers will challenge the chemist in you. **Elementary!** is compiled by the Royal Society of Chemistry's puzzler Paul Board, with each chapter concentrating on a particular branch of science or facet of life. Explore scientists and superpowers, particles, places, plants, planets, poisons and more.



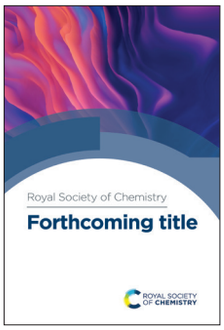
Paperback | 200 pages
9781839169458 | 2023
£19.99 | $27.99
€24.99 | CA$37.99

Forensic Science

The Science Behind the Truth

Ian Shaw University of Canterbury, New Zealand | **Anna Sandiford** The Forensic Science Group Ltd., New Zealand

Succinctly presented, this book covers all the facets of forensic science for students who are hoping to become police officers, lawyers or other members of the criminal justice system. As forensic investigations have advanced, eg in DNA profiling, computer modelling and behavioural sciences, so has the need for an increase in the level of scientific knowledge. Considering the challenges this brings, the author explains complex information in an accessible and undemanding style. Using international case studies, this book brings forensic science to life and include aspects of the author's personal journey.



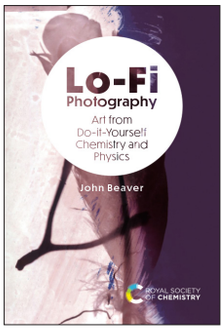
Paperback | 300 pages
9781839166747 | 2023
£34.99 | $48.99
€44.00 | CA$66.50

Lo-Fi Photography

Art from Do-It-Yourself Chemistry and Physics

John Beaver

Of all the arts, photography has perhaps the closest association with science and technology: the physics of light and colour combined with chemistry to capture images. **Lo-Fi Photography** is an ideal introduction to the science that lies behind photography and the array of simple methods that can be used to capture light and create images. From making homemade cameras to accessible techniques, the goal of this book is to provide all readers with access to this interesting form of creative photography via how-to guides, plans and some tips and tricks. In addition to the theory and hands-on guidance, this book also explores Lo-Fi photography as a distinct art form and provides further reading and excellent sources for diving even deeper into the world of experimental photography. **Lo-Fi Photography** is both a superb introduction to anyone curious about the science of photography and a first-rate guide to the world of experimental photography for inquisitive photographers.



Hardback | 250 pages
9781839165115 | 2023
£29.99 | $39.99
€38.00 | CA$57.00

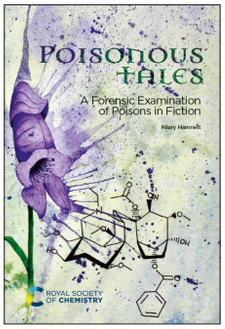
M_Revenue Generation_Books Catalogue 2023-Textbooks_210x275mm.indd 19 14/12/2022 11:04:10

Popular Science

Poisonous Tales

A Forensic Examination of Poisons in Fiction

Hilary Hamnett University of Lincoln, UK



Paperback | 250 pages
9781839161438 | 2023
£24.00 | $34.00
€30.00 | CA$46.00

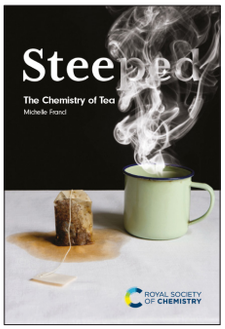
ISBN 978-1-83916-143-8

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.

Steeped

The Chemistry of Tea

Michelle Francl Bryn Mawr College & Vatican Observatory, USA



Paperback | 200 pages
9781839165917 | 2023
£24.99 | $34.99
€30.99 | CA$47.99

ISBN 978-1-83916-591-7

Tea is the world's most popular beverage. Brewed from the leaves of the *Camelia sinensis* plant, tea is drunk in countries all over the world and the chemistry of both the plant and its preparation is fascinating. Beginning with a leaf to cup introduction, this book looks at the molecular makeup of different types of tea, discusses brewing and steeping and the age-old question of when, or even whether, to add milk.

The Science of Ice Cream

3rd Edition

Chris Clarke ex-Unilever, UK | **Andrew Cox** Unilever Research and Development, UK

Hardback | 250 pages
9781839164866 | 2023
£29.99 | $42.00
€37.00 | CA$57.00

ISBN 978-1-83916-486-6

Ice cream as we recognise it today has been in existence for at least 300 years, though its origins probably go much further back in time. The updated version of this established text begins with the history of ice cream. Subsequent chapters explore the link between the microscopic and macroscopic properties and how these relate to the ultimate texture of the product. Information on nutritional aspects and developments in new products and processes for making ice cream are covered. The chapter on making ice cream better for you has been expanded and a new section on non-dairy (eg vegan or plant-based) ice cream is included. One or two additional experiments have also been added. Written by active industrial practitioners, the book is accessible, has authenticity and immediacy. It is ideal for undergraduate food science students as well as those working in the food industry.

M_Revenue Generation_Books Catalogue 2023-Textbooks_210x275mm.indd 20 14/12/2022 11:04:15

Popular Science

The Science of Running a Consultancy

Hardback | 300 pages
9781788017787 | 2023
£45.00 | $60.00
€52.00 | CA$77.00

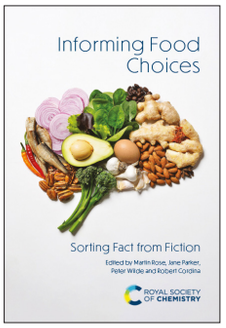
ISBN 978-1-78801-778-7

William P Edwards Bardfield Consultants, UK

Aimed at chemical consultancy, although the principles can be applied more broadly, this book shows the reader how to set themselves up as an independent consultant. Focussing not only on the essential business functions, from being a sole trader, accounting and marketing, the book also pays attention to the necessary mind set needed, with particular respect to those making the move from employee to consultant. Various other activities are explored, such as those which raise your international profile like writing, to running training courses and acting as an expert witness.

Informing Food Preferences

Sorting Fact from Fiction



Paperback | 240 pages
9781839164316 | 2023
£24.99 | $35.00
€31.00 | CA$47.50

ISBN 978-1-83916-431-6

Martin Rose University of Manchester, UK | **Jane Parker** University of Reading, UK | **Peter Wilde** Quadram Institute Bioscience, UK | **Robert Cordina**

This book explores common insights relating to food choice. Consumers make rapid choices on purported health claims as well as ethical grounds, often without the full facts. The book provides an opportunity to think deeper about food choices and to examine whether choices are always as straightforward as they first seem to be. Widening the arguments from different points of view and removing the bias in terms of message, the authors examine preconceived assumptions and notions and try to dispel common assumptions about what is best for you. Whilst aimed at a general readership, the content is based on scientific arguments exploring pros and cons behind popular choices and perceptions.

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Using molecular models can help students to visualise concepts such as isomerism through hands-on learning. The models can also be used to learn about balancing equations and molecular geometry.

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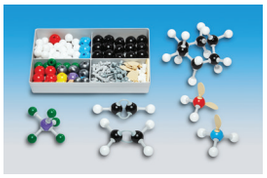

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Top Trumps™

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Royal Society of Chemistry

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9781782620747 | 2014
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RSC Periodic Table

Wallchart, A0 - 2A0

Murray Robertson Visual Elements, UK

The poster is two-sided: on one side, a Visual Elements version, with fascinating element artwork by Murray Robertson based on scientific data provided by the chemist and science writer John Emsley; on the other, a bold colour-coded version, emphasising readability and clarity. Printed in full colour, the wallchart measures A0. Information for each element includes the name, chemical symbol, atomic number, and relative atomic mass.

The groups are readily identifiable by colour. We've designed the wallchart to be readable, visually engaging, and an excellent addition to any classroom, laboratory, or office. Price shown does not include VAT in the EU.

A0 Poster
9781788011938 | 2014
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9781788011921 | 2014
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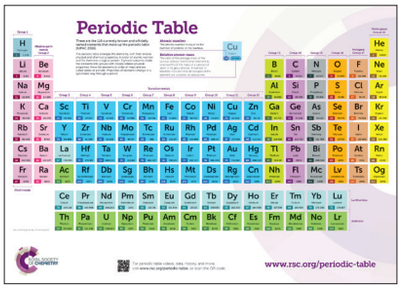

2A0 (1682 x 1189 mm)

Visual Elements Jigsaw

Murray Robertson Visual Elements, UK

With 550 pieces and a stunning full-colour design, this jigsaw puzzle beautifully illustrates the periodic table in all its glory. The jigsaw would be an attractive gift for any puzzle-loving friends or relatives, and might even spark an interest in chemistry. Price shown does not include VAT in the EU.

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9780854048434 | 2006
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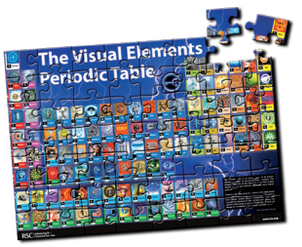

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