

# Textbooks and Popular science

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# from the Royal Society of Chemistry

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It's been 10 years since the first book in our Catalysis series – *Carbons and Carbon Supported Catalysts in Hydroprocessing* – hit the shelves. Since then, the series has grown to include over 30 titles, and there are five more joining the series this year. Head to page 54 to read more.

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If you have any queries, contact books@rsc.org to talk to the team.

For a list of books published prior to 2018, visit rsc.li/backlist

Happy reading

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Sara Bowler Senior Sales Executive, Books

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Kohoena Anand

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#### Five minutes with...



Name Andreas Manz
Affiliation University des Saarlandes, Germany
Author of Microfluidics and Lab on a Chip
Book publication date April 2018
ISBN 9781782628330

#### Tell me about yourself

I studied chemistry at ETH Zurich Switzerland, finishing with a PhD in analytical chemistry. Besides research in Japan (Hitachi), Basel (Ciba-Geigy, Novartis), London (Imperial College) and Germany (Dortmund, Freiburg and Saarbrucken), I helped to start the Royal Society of Chemistry's journal Lab on a Chip. I also helped to establish the MicroTAS conference series and am involved in a Silicon Valley start-up company (Caliper Technologies – now part of Perkin Elmer).



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Conference proceedings





Popular science

#### What are you really excited about at the moment?

The Human Document Project. This is an attempt to store information about us and our culture for one million years into the future. My interest – is storage in of a microorganism competitive? Is storage in a monocrystal better?

#### What question or challenge did you set out to address with your book?

Initially, it was an environmental monitoring project of a Swiss pharma industry: identify and quantify a given set of chemicals in water, which should not be in water on a manufacturing site. Conventional analytical chemistry was too slow, and sensors not available for those compounds. These days, the focus has changed to clinical diagnostics and also some aspects of drug discovery.

#### In your opinion, what is the biggest unanswered question in chemistry?

I would be truly intrigued if somebody came up with a convincing reason why all biochemistry uses L amino acids and D glucose, and not its mirror images.



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## An Introduction to Ionic Liquids 2nd Edition



Jason Hallett Imperial College London, UK

Written in a clear, concise and consistent way, this textbook is a valuable introduction to ionic liquids for advanced undergraduate and graduate courses. It explores their nomenclature, history, properties and their wide ranging applications, from catalysis to electrochemistry and clean technology. This second edition covers major developments in ionic liquids science and its applications over recent years, such as the use of ionic liquids for carbon dioxide capture; biomass processing; making biofuels such as ethanol; biomedical applications including drug delivery; and surface science studies and applications including lubrication.

Hardback | 360 pages | 9781782623366 | 2018 | £49.95 | \$70.00

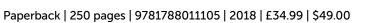
# **Complete Science Communication**



A Guide to Connecting with Scientists, Journalists and the Public

Ryan C Fortenberry Georgia Southern University, USA

Written as a textbook to support advanced level undergraduate and postgraduate courses, the book brings together all aspects of science communication. Focus is on the four key areas of writing for non-technical audiences and science journalism; writing for technical audiences and peer-reviewed journals; public speaking of science; and public relations. This text will provide science students with an appreciative understanding of accepted human communication theories and practices. Potential assignments are also provided at the end of each chapter as additional resources.





# **Chemical Engineering Explained**



**Basic Concepts for Novices** 

David Shallcross University of Melbourne, Australia

Written for those less comfortable with science and mathematics, this text introduces the major chemical engineering topics for non-chemical engineers. With a focus on the practical rather than the theoretical, the reader will obtain a foundation in chemical engineering that can be applied directly to the workplace. By the end of this book, the user will be aware of the major considerations required to safely and efficiently design and operate a chemical processing facility. Case studies are included throughout, building a real-world connection. This book is ideal for professionals working with chemical engineers, and decision makers in chemical engineering industries.

Hardback | 450 pages | 9781782628613 | 2018 | £49.99 | \$84.00



# **Design of Experiments for Chemists**



**Introductory Statistical Methods** 

Matthew Linsley Newcastle University, UK

Design of Experiments (DoE) is recognised as an essential skill by many organisations. Its application ensures robust processes with quality output and is beneficial for improving the efficiency of lab-based academic research. In response to concerns over the lack of chemists with statistical and DoE skills, this book provides a very accessible and practical introduction to the topic written by a statistician with vast experience training chemists and relating to the needs of the chemical science community. It explores real life case studies and experiences to bring the theory to life and readers are given practical advice on applying the techniques presented within their own environments throughout.

Hardback | 300 pages | 9781782626572 | 2018 | £42.99 | \$60.00









#### **Fundamentals of Smart Materials**



**Mohsen Shahinpoor** University of Maine, USA | **Hans-Jorg Schneider** Universität des Saarlandes, Germany

A new textbook consisting of a workbook and solutions manual covering the fundamentals of different functional material systems aimed at advanced undergraduate and postgraduate students. Each chapter includes an introduction to the material, its applications and uses with example problems, fabrication and manufacturing techniques, conclusions, homework problems and a bibliography. Written by leading authors in smart materials, topics include piezoelectric materials, magnetostrictive materials, shape memory alloys, mechanochromic materials, thermochromic materials, chemomechanical polymers and self-healing materials.

Hardback | 480 pages | 9781782626459 | 2018 | £76.99 | \$108.00

# Gas Chromatography-Mass Spectrometry



#### How Do I Get the Best Results?

Jason Creasey GlaxoSmithKline, UK | Anthony Gachanja Jomo Kenyatta University of Agriculture and Technology, Kenya | Imran Janmohamed | Steven Lancaster Domino Printing Sciences, UK | Mathias Schäfer University of Cologne, Germany | Diane Turner Anthias Consulting Ltd, UK

Gas chromatography—mass spectrometry (GC-MS) can be used in everything from environmental monitoring and food safety to forensic science and medicine. This textbook introduces students and scientists who are new to GC-MS to all of the steps involved in using this technique as part of a research process. Throughout the book, case studies illustrate the process, the techniques used and any common challenges. Newcomers can easily search for answers to the "how do I...?" question they may have and find basic and clear advice on how to get started. The book draws on extensive experience teaching GC-MS courses in the developing world as part of the Royal Society of Chemistry's Pan Africa Network supported by GlaxoSmithKline.

Paperback | 400 pages | 9781782629283 | 2018 | £37.99 | \$53.00

# **Genomics and Clinical Diagnostics**



**David Whitehouse** University of Hertfordshire, UK | **Ralph Rapley** University of Hertfordshire, UK

With large genome initiatives being announced around the world, this book provides a timely graduate level introduction to molecular diagnostics technologies and applications to enable readers to embrace the subject and original literature. The first of four sections delivers readily accessible introductory information on the purposes, properties and drawbacks of diagnostic tests followed by chapters on the principal molecular technologies that underpin the information in the later sections. The following two sections provide more specialised examples of currently used diagnostic technologies and insights into selected key diagnostic challenges including specific examples, automation and point of care testing. The book concludes with a section on future prospects focusing on mutation detection for personalised medicine, for example in cancer.



Hardback | 550 pages | 9781782628217 | 2018 | £76.99 | \$108.00

#### 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 NMR spectroscopy, this book will be useful for explaining and facilitating 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 | 2019 | £86.99 | \$122.00





## Metals in Biology and Medicine



#### A Chemical Approach

**Peggy Carver** University of Michigan, USA | **Vincent Pecoraro** University of Michigan, USA | **Gianni Valensin** University of Siena, Italy | **Henryk Kozłowski** University of Wroclaw, Poland

Metals in Biology and Medicine provides students of chemistry, biochemistry, molecular biology and pharmaceutical sciences who are learning bioinorganic chemistry as part of their degree with a comprehensive understanding of the subject. The book emphasises a molecular approach to understanding whilst highlighting clinical aspects through the logical presentation of metals in coordination chemistry, in biology, in homeostasis, in disease, and in medicine. The book contains teaching aids and cues for group learning discussions.

Hardback | 600 pages | 9781782626503 | 2018 | £86.99 | \$122.00

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# **Principles of Modern Structural Analysis**



#### Applications in Crystalline and Non-crystalline Environments

**Richard Cooper** University of Oxford, UK | **Andrew Goodwin** University of Oxford, UK | **Paul Raithby** University of Bath, UK

Embracing crystal structure analysis and materials science, this textbook provides students with a broad view of diffraction and its applications. By using this book, the student will learn the key theories, techniques, analysis and modeling tools needed to build confidence in modern structural science. Highlights of the book include diffraction principles with underpinning theories emphasised, core techniques such as single crystal, powder X-Ray and neutron diffraction and their applications, modeling methods and PDF analysis and emerging techniques and developments. With worked examples, this book offers advanced undergraduates and graduates a concise and thorough guide to the subject.

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Hardback | 350 pages | 9781782624622 | 2018 | £76.99 | \$108.00

# Microfluidics and Lab-on-a-chip



**Andreas Manz** Universität des Saarlandes, Germany | **Mark D Tarn** University of Leeds, UK | **Giuseppina Simone** University of Naples "Federico II", Italy | **Eric R Castro** 

Covering the fast and dynamic development of miniaturization, µTAS and microfluidics, this accessible text is unique in its approach. The chapters provide the tools for analysing phenomena from the scientific point of view and aids for implementing quantitative/qualitative models including applications in cell biology and bioanalytical chemistry. Providing a short, affordable text for students that includes sufficient information to open up this area to them, this book is useful to a wide audience, students that for the first time approach the field, as well as engineers, physicians, cell biologists, biochemists, microbiologists, geneticists, and medical researchers.

Paperback | 200 pages | 9781782628330 | 2018 | £35.99 | \$50.00







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#### Five minutes with...

Name John Emsley
Occupation Science writer
Author of More Molecules of Murder
Book publication date June 2017
ISBN 978-1-78801-103-7

#### Before you became a science writer, what did your career look like?

I joined Kings College Chemistry Department in 1966 as a junior lecturer specialising in non-metal chemistry. In 1984 I was promoted to Reader in Chemistry and got a DSc degree on the basis of my years of research with several PhD students and writing more than 100 original research papers.

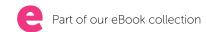
#### What inspired you to write your Molecules of Murder books?

When I wrote the *The Shocking History of Phosphorus* in 2000 I included a chapter about its misuse in domestic murders. People said that they found this to be the most interesting chapter in the book! I then suggested to my agent that I write a series of books about those elements of the periodic table which are inherently dangerous. He said I should write a single book devoted to them all and this came out in 2005 as *Elements of Murder*. But why just stick to elements? Why not extend the story to cover molecules? So I wrote *Molecules of Murder*.

What advice would you give someone wanting to become a science writer?

Don't be afraid of having a go. Write something and let your non-chemist family and friends read it before you submit it for publication, even if it's only to the student magazine. Always remember that people are more interesting than facts, so emphasise the human-interest aspect. If you want to write a book then maybe approach an agent first and see if he or she will take you on, but they will want to see evidence that you can write for the wider public. Some book publishers won't look at your manuscript unless it comes via an agent whom they will assume will have read it and liked it.

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# From Crime Scene to Kidney Stones



#### Putting metal ions in their place

**Lars Ohrstrom** Chalmers University of Technology, Sweden | **Jacques Coves** CNRS Universite Joseph Fourier Grenoble

Did rhubarb start the Franco-Prussian war? How did Oxford barbers help fight chemical warfare in WII? Told through intriguing real-life stories, this book shows how metal ions and ligand chemistry have played a significant role in human history and continue to influence the world around us.

Paperback | 250 pages | 9781788010948 | 2019 | £19.99 | \$28.00

# **Good Enough to Eat?**



#### Next generation GM crops

lan D Godwin The University of Queensland, Australia

How are genetically modified (GM) crops created and why? How will crops evolve in future with scientists using new gene editing tools? Ian Godwin, a professor in plant molecular genetics, explores these questions in a fun and accessible style in *Good Enough to Eat*. The book delves into the social, political, and philosophical arguments for and against GM crops as well as the science behind them and puts this knowledge into the context of global food security and sustainability. Godwin interviews biologists and farmers, nutritionists and activists along the way.

Paperback | 200 pages | 9781788010856 | 2018 | £21.99 | \$31.00

# A History of Distillation



Ian Hornsey Nethergate Brewery, UK

Although early texts tend to be shrouded in mystery, one thing is certain that in the alchemist's quest for the elixir of life, distillation played a central role. There is no modern book that deals with the history of distillation and there is a wealth of new material to report particularly around the early alchemists and into the origins of distillation from other civilisations. With the growth of the craft distillation industry internationally, both producers and the layman with a specialist interest in distilling will find this book of interest. Ian Hornsey has extensively researched the literature and brings his topic to life through his contagious enthusiasm and excellent writing.



Paperback | 300 pages | 9781788011952 | 2018 | £33.99 | \$48.00

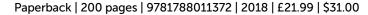
#### The Horse Who Came to Dinner



#### A New Approach to Food Fraud

#### Glenn Taylor

Science is at the forefront of uncovering some of the century's biggest food scams and this book details food fraud over many years giving unique insights from an enforcement point of view. Following Horse gate, the substitution of beef with horse, the enforcement world has changed. There is now a team focusing on food fraud and a desire to put the perpetrators behind bars. This book will be timely, bringing the literature right up to date, and aimed at food professionals and lay readers studying food fraud, those with an interest in forensics and food forensics in particular and enforcement officers.









#### More Molecules of Murder



#### John Emsley

How can a plant as beautiful as the foxglove be so deadly and yet so useful to treat heart disease? What will kill a rat may also kill a human so it is not, necessarily, surprising to find that murderers have resorted to rat poison but what happens when the rat poison doesn't work? Eight years after the highly acclaimed *Molecules of Murder*, John Emsley is again applying his winning formula to writing a book about crimes of murder and attempted murder carried out with natural and man-made poisons. Every chapter will feature one molecule and begin with an explanation of the molecule itself, followed by details of its discovery, history and use in medicine, before analysing murders which have been carried out using it. This book will not disappoint anyone interested in substances that are poisonous.

Paperback | 250 pages | 9781788011037 | 2017 | £17.99 | \$25.00

#### The Science of Chocolate 3rd Edition



#### Stephen Beckett

Now in its third edition, this bestselling book describes the complete chocolate making process from growing the beans to the sale in the shops. It has been ten years since the last edition was published and Stephen Beckett has improved and expanded the text to bring it up to date. Revisions include a new chapter 'How do they make that?' which details, for example, how air is incorporated into Aero, how chocolate shapes are filled and other distinctive products. This popular title will appeal to anyone with a fascination for chocolate including food scientists and those working in the confectionery industry.

Paperback | 270 pages | 9781788012355 | 2018 | £26.99 | \$38.00

# **Chemistry Crosswords**



Are you good at solving puzzles? Do you have an active interest in science? Then why not try Chemistry Crosswords? With 70 crosswords all with chemistry related clues and answers, and designed with chemists in mind, this collection is set to challenge you. So distil your thoughts, find the solutions and good luck!

Paperback | 112 pages | 9781782628903 | 2017 | £8.99 | \$12.99



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# Top Trumps™

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**Royal Society of Chemistry** 

Elements Top Trumps is an entertaining, fast-paced chemistry card game. With eye-catching imagery and fascinating facts about the elements, it's a great way to have fun and learn about the elements. Recommended for children aged 7-14, the game can be played by two or more players. Each of the 30 cards represents an element. Players compare numerical properties of the elements (melting point, density, price, discovery date and the size of the atom) and choose the category they think will win. Elements Top Trumps is created by the Royal Society of Chemistry in partnership with Winning Moves Ltd, the makers of Top Trumps<sup>TM</sup>.

Single pack | 9781847559005 | 2008 | £6.00 | \$9.60 Pack of six | 9781849739214 | 2008 | £60.00 | \$96.00



**2A0** (1682 x 1189 mm)

#### **RSC Periodic Table**

Wallchart, A0 - 2A0

Murray Robertson Visual Elements, UK

Updated for 2017, the Royal Society of Chemistry's bold and clear representation of the periodic table now includes the four new elements, completing the seventh period. 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 | £10.95 | \$16.00 2A0 Poster | 9781788011921 | 2014 | £33.00 | \$49.50

# **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.

Non Book / Merchandise | 9780854048434 | 2006 | £12.08 | \$24.00

**A0** (1189 x 841 mm)

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