

New parutions

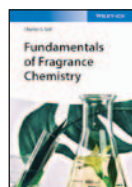


**Research and Practice
in Chemistry Education
Advances from the 25th IUPAC
International Conference
on Chemistry Education 2018**

M. Schultz, S. Schmid, G.A. Lawrie, (eds)
274 p., 114.39 € (eBook 67.82 €)
Springer, May 2019

This book brings together fifteen contributions from presenters at the 25th IUPAC International Conference on Chemistry Education 2018, held in Sydney. Written by a highly diverse group of chemistry educators working within different national and institutional contexts with the common goal of improving student learning, it presents research in multiple facets of the cutting edge of chemistry education, offering insights into the application of learning theories in chemistry combined with practical experience in implementing teaching strategies. The chapters are arranged according to the themes novel pedagogies, dynamic teaching environments, new approaches in assessment and professional skills – each of which is of substantial current interest to the science education communities.

Providing an overview of contemporary practice, this book helps improve student learning outcomes. Many of the teaching strategies presented are transferable to other disciplines and are of great interest to the global community of tertiary chemistry educators as well as readers in the areas of secondary STEM education and other disciplines.



**Fundamentals of Fragrance
Chemistry**

C.S. Sell
360 p., 79.10 € (eBook 67.80 €)
Wiley, Apr. 2019

Ernest Beaux, the perfumer who created Chanel No. 5, said, "One has to rely on chemists to find new aroma chemicals creating new,

original notes. In perfumery, the future lies primarily in the hands of chemists." This book provides chemists and chemists-to-be with everything they need to know in order to create welcome new fragrances for the world to enjoy. It offers a simplified introduction into organic chemistry, including separation techniques and analytical methodologies; discusses the structure of perfume creation with respect to the many reactive ingredients in consumer products; and shows how to formulate effective and long-lasting scents.



**Medicinal plants
Chemistry, Pharmacology,
and Therapeutic Applications**

M.K. Swamy, J.K. Patra, G.R. Rudramurthy
238 p., 92.00 £
CRC Press, May 2019

This book details several important medicinal plants, their occurrence, plant compounds and their chemical structures, and pharmacological properties against various human diseases. It also gives information on isolation and structural elucidation of phyto-compounds, bio-assays, metabolomic studies, and therapeutical applications of plant compounds.



**The Promise of Science
Essays and Lectures from Modern
Scientific Pioneers**

L. Karnath (ed.)
296 p., 75 £ (eBook 60 £)
World Scientific, May 2019

This thought-provoking publication covers a wide-range of innovative areas of research and technologies that are unlocking groundbreaking new potentials in science. It contains important scientific information gleaned from the lectures of some of the world's experts in their respective fields. The book offers exceptional scientific insights, oftentimes addressing challenges before they are even recognized as questions. Chronicling the revolutionary ideas of Nobel

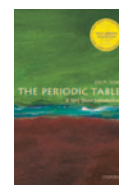


**European Journal
of Organic Chemistry
Special issue dedicated
to 50 years of rotaxanes**

Fifty years ago, Gottfried Schill and Hubertus Zollenkopf reported the synthesis of a macrocyclic ring threaded onto a linear aromatic moiety capped by bulky end groups, which they named for the first time as rotaxanes. This **special issue guest-edited by Jean-Pierre Sauvage** honors this important milestone in supramolecular chemistry, which was published in *Liebigs Annalen*, one of the key founding journals of *EurJOC*. With contributions from Jean-François Nierengarten, Nicholas H. Evans, Maurizio Prato, Shinichi Saito, Nicolas Giuseppone and many more.

• <https://onlinelibrary.wiley.com/toc/10990690/2019/2019/21>

Laureates, winners of Wolf Prize, US National Medal of Science and other notable scientists.



**The Periodic Table
A Very Short Introduction (2nd ed.)**

E.R. Scerri
184 p., 8.99 £

Oxford University Press, July 2019

This new edition, part of the *Very Short Introductions* series – over ten million copies sold worldwide –, considers the fundamental nature of the periodic table to the physical sciences. Published in the International Year of the Periodic Table, it celebrates the completion of the seventh period of the table, with the ratification and naming of elements 113, 115, 117 and 118 as nihonium, moscovium, tennessine and oganesson. It also incorporates new material on recent advances in our understanding of the origin of the elements, and explores the history of the discovery of trends among elements, the construction of various forms of the table, and the growth of understanding of its meaning.