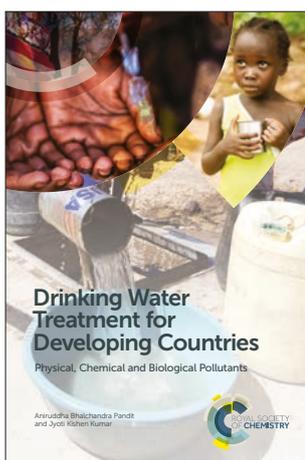


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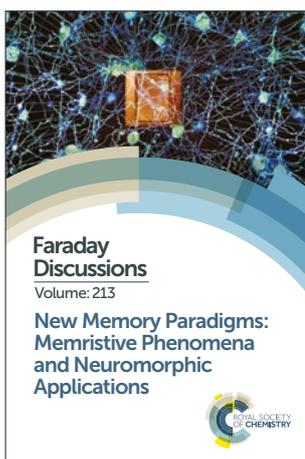


## Drinking Water Treatment for Developing Countries Physical, Chemical and Biological Pollutants

Aniruddha Bhalchandra Pandit Institute of Chemical Technology, Mumbai, India  
Jyoti Kishen Kumar Institute of Chemical Technology, Mumbai, India

Drinking water availability and safety is a major challenge faced globally and is highly pronounced in developing countries worldwide. This book shines a light on drinking water treatment methods and scale of operation specifically for the developing regions. Covering both conventional and emerging treatment technologies, the authors discuss the removal of chemical, physical and biological pollutants from drinking water, with a focus on developing countries. Conservation by rainwater harvesting, wastewater reuse, and selection criteria of feasible methods are considered in the context of issues relevant to Africa, Asia, Latin America and the Caribbean. With case studies connecting theory to real world matters, showcasing efficiencies and drawbacks, this book is ideal for graduate and postgraduate level course use in engineering departments or for self-study and research.

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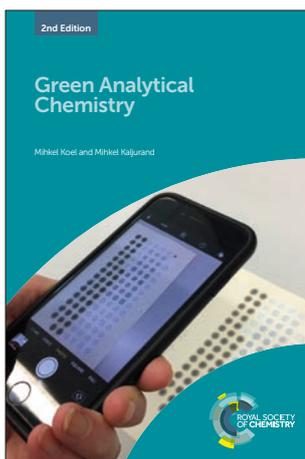


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## Green Analytical Chemistry

Mihkel Koel Tallinn University of Technology, Estonia  
Mihkel Kaljurand Tallinn University of Technology, Estonia

The main goal of green analytical chemistry is to avoid or reduce the undesirable environmental side effects of chemical analysis, while preserving the classic analytical parameters of accuracy, sensitivity, selectivity and precision. This book portrays the current and changing situation concerning adoption of the principles of green chemistry as applied to analysis. Aimed at graduates and novices just entering the field, managers of analytical research laboratories, teachers of analytical chemistry and green public policy makers.

Hardback | 331 pages | ISBN 9781788014861 | £60.00 | \$85.00 | 13/03/2019

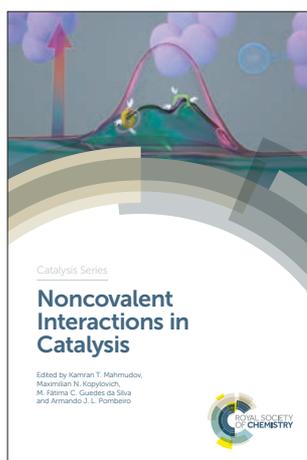
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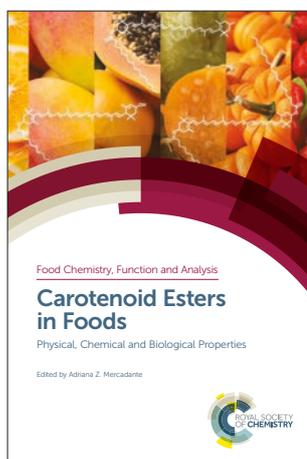


## Noncovalent Interactions in Catalysis

Kamran T Mahmudov University of Lisbon, Portugal  
Maximilian N Kopylovich University of Lisbon, Portugal  
M Fatima C Guedes da Silva University of Lisbon, Portugal  
Armando J L Pombeiro University of Lisbon, Portugal

Noncovalent interactions (such as hydrogen bonds,  $\pi$ - $\pi$  stacking and lipophilic interactions) often provide the spine of biomolecular and material structures, and can therefore play a key role in biological and catalytic processes. This book provides an overview of the role of different types of noncovalent interactions in both homogenous and heterogeneous catalysis. With chapters contributed by experts from around the world it is a valuable resource for synthetic chemists who are interested in exploring and further developing noncovalent-interaction-assisted synthesis and catalysis.

Hardback | 644 pages | ISBN 9781788014687 | £199.00 | \$275.00 | 18/03/2019



## Carotenoid Esters in Foods

### Physical, Chemical and Biological Properties

Adriana Z Mercadante University of Campinas, Brazil

Carotenoids are found in some food plants, flowers and animals, in free form and also esterified with fatty acids. Recent research has concentrated on the extent of carotenoid esters in these sources, how to measure their presence and the amount available for potential health effects. Focusing on the occurrence and assembly in foods, biosynthesis, analytical methods for identification and quantification, dietary intake and metabolism, the most recent research is represented and a balanced overview of what is known about carotenoid esters is provided. This book is a must have source for researchers in food science, nutrition and the food industry.

Hardback | 472 pages | ISBN 9781788012423 | £179.00 | \$250.00 | 06/03/2019

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