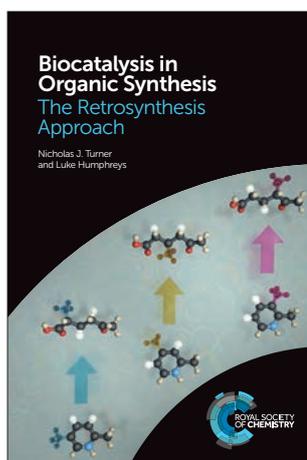


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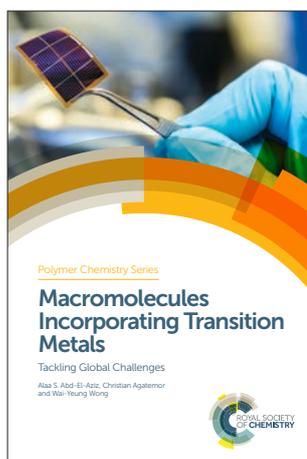
## Biocatalysis in Organic Synthesis

### The Retrosynthesis Approach

Nicholas J Turner University of Manchester, UK  
Luke Humphreys GlaxoSmithKline, UK

This unique textbook provides new guidelines for “biocatalytic retrosynthesis” in which molecules are disconnected with consideration for applying biocatalysts in the forward synthesis direction. It aims to enable students to make the connection between biocatalysis and synthesis earlier in their studies and to equip students for the modern world of organic synthesis where biocatalysts play an increasingly important role. Tutorials enable the reader to practise disconnecting target molecules to find the ‘hidden’ biocatalytic reactions which can be applied in the synthetic direction. It also contains a complete description of the current biocatalyst classes that are available. This textbook is an essential resource for lecturers and students studying synthetic chemistry. It also serves as a handy reference for practising chemists wishing to embed biocatalysis into their synthetic toolbox.

Paperback | 430 pages | ISBN 9781782625308 | £49.99 | \$70.00 | 08/02/2018



## Macromolecules Incorporating Transition Metals

### Tackling Global Challenges

Alaa S Abd-El-Aziz University of Prince Edward Island, Canada  
Christian Agatemor University of Prince Edward Island, Canada  
Wai-Yeung Wong Hong Kong Baptist University, Hong Kong

New materials are required to solve global challenges such as the growing energy demand and reducing the threat of new and re-emerging diseases and infections. Metallopolymers is an exciting and promising area of research and this book focuses on the strategy of incorporating transition metals into macromolecules to design functional materials for addressing such problems. The book appeals to those interested in polymer chemistry, organometallic chemistry and materials science as well as the applications of the materials for example optoelectronic systems, sensors, energy harvesting and biomedical research.

Hardback | 231 pages | ISBN 9781782628996 | £149.00 | \$237.00 | 06/02/2018

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