Materials Science

Highlights from our books portfolio

www.rsc.org/books



Royal Society of Chemistry Books

The Royal Society of Chemistry is the world's leading chemistry community, advancing excellence in the chemical sciences. With a knowledge business that spans the globe, we are the UK's professional body for chemical scientists; a not-for-profit organisation with 170 years of history and an international vision for the future.

We promote, support and celebrate chemistry while working to shape the future of the chemical sciences – for the benefit of science and humanity.

With over 1,300 titles forming a collection spanning 46 years of research, our titles are carefully commissioned to appeal to a diverse readership.

What our Materials portfolio has to offer you

Featuring a superb selection of book series, textbooks and professional reference titles, our Materials portfolio:

- details the latest research advances in materials science;
- highlights ground-breaking technology;
- provides reference information, opinions and perspective on modern science.

If you need help with background reading, insight to advance your career or simply want to fill any gaps in your knowledge, our selection of materials titles will be an indispensable resource.

Here, we feature some of our highlights from the Materials portfolio. To view all our titles, visit **www.rsc.org/books**

Also of interest

In addition to our book titles, we also have a wide range of journals that you can trust to deliver high quality content. Choose from journals including *Biomaterials Science, Journal of Materials Chemistry A, B & C, Materials Horizons, Nanoscale, Polymer Chemistry* and *Soft Matter*.

For more information on our entire publishing portfolio visit www.rsc.org

Materials Science series

RSC Nanoscience & Nanotechnology

Editor-in-Chief: Paul O'Brien University of Manchester, UK

Series Editors: Xiaogang Liu National University of Singapore, Singapore | Ralph Nuzzo University of Illinois at Urbana-Champaign, USA | Joao Rocha University of Aveiro, Portugal

The RSC Nanoscience & Nanotechnology Series provides a comprehensive resource of books covering key topics in nanoscience. This includes the characterisation, performance and properties of nanostructured materials and technologies as well as their applications.

http://rsc.li/nanoscience

Highlights from the series

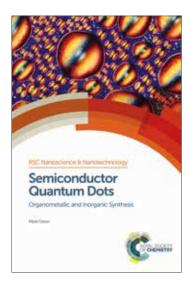
Nanodiamond

Oliver A Williams Cardiff University, UK Hardback | 530 pages | 9781849736398 | 2014 | £175.00 | \$290.00

Nanotubes and Nanowires, 2nd Edition

C N Ram Rao and A Govindaraj Jawaharlal Nehru Centre for Advanced Science Research, India

Hardback | 542 pages | 9781849730587 | 2011 |£139.99 | \$224.00



Semiconductor Quantum Dots Hardback | 295 pages 9781849739856 | 2014 £145.00 | \$240.00

RSC Smart Materials

Series Editors: Hans-Jörg Schneider Universität des Saarlandes, Germany | Mohsen Shahinpoor University of Maine, USA

This series covers the fundamentals and applications of different material systems from renowned international experts.

http://rsc.li/smart-materials

Highlights from the series

Responsive Photonic Nanostructures: Smart Nanoscale Optical Materials

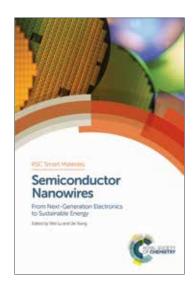
Yadong Yin University of California, Riverside, USA

Hardback | 338 pages | 9781849736534 | 2013 | £149.99 | \$240.00

Materials Design Inspired by Nature: Function Through Inner Architecture

Peter Fratzl, John Dunlop and Richard Weinkamer Max Planck Institute of Colloids and Interfaces, Germany

Hardback | 402 pages | 9781849735537 | 2013 | £159.99 | \$260.00



Semiconductor Nanowires Hardback | 437 pages 9781849738156 | 2014 £175.00 | \$290.00

Polymer Chemistry Series

Editor-in-Chief: Ben Zhong Tang The Hong Kong University of Science and Technology, China

Series Editors: Alaa Abd-El-Aziz University of Prince Edward Island, Canada | Stephen Craig Duke University, USA | Jianhua Dong National Natural Science Foundation of China, China | Toshio Masuda Kyoto University, Japan | Christoph Weder University of Fribourg, Switzerland

Each book in this series covers key themes in polymer chemistry research for graduate-level students and above. It is a thorough introduction to key topics, guided by leading experts from across the globe.

http://rsc.li/polymer

Highlights from the series

Conjugated Polymers: A Practical Guide to Synthesis

Klaus Müllen Max Planck Institute for Polymer Research, Germany | John R Reynolds Georgia Institute of Technology, USA | Toshio Masuda Kyoto University, Japan

Hardback | 480 pages | 9781849737999 | 2013 | £159.99 | \$260.00

Thiol-X Chemistries in Polymer and Materials Science

Andrew Lowe University of New South Wales, Australia | Christopher Bowman University of Colorado at Boulder, USA

Hardback | 336 pages | 9781849736602 | 2013 | £159.99 | \$260.00

Soft Matter Series

Series Editors: Hans-Jürgen Butt Max Planck Institute for Polymer Research, Germany Ian W Hamley University of Reading, UK | Howard Stone Princeton University, USA | Chi Wu The Chinese University of Hong Kong, China

Get up to speed on the latest research in soft matter with this new, authoritative series. All the books provide an essential overview of the latest developments in soft matter research, with each title covering a specific aspect of soft matter science.

http://rsc.li/soft-matter

Highlights from the series

Functional Molecular Gels

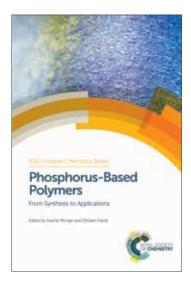
Beatriu Escuder and Juan F Miravet Universitat Jaume I, Spain

Hardback | 332 pages | 9781849736657 | 2013 | £149.99 | \$240.00

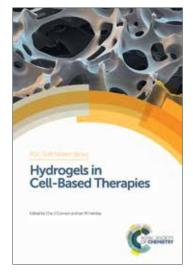
Particle-Stabilized Emulsions and Colloids: Formation and Applications

To Ngai The Chinese University of Hong Kong, China | **Stefan Bon** University of Warwick, UK

Hardback | 300 pages | 9781849738811 | 2014 | £175.00 | \$290.00



Phosphorus-Based Polymers Hardback | 318 pages 9781849736466 | 2014 £165.00 | \$270.00



Hydrogels in Cell-Baed Therapies Hardback | 238 pages 9781849737982 | 2014 £155.00 | \$255.00

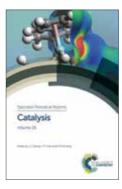
Specialist Periodical Reports



Nanoscience, Volume 2 e Nanostructures through Chemistry

Paul O'Brien and P Thomas

Hardback | 285 pages 9781849735827 | 2014 £314.95 | \$505.00



Catalysis, Volume 26 🧕

James Spivey, Yi-Fan Han and K Dooley

Hardback | 286 pages 9781849739184 £314.95 | \$505.00

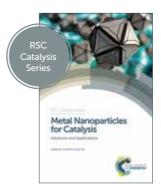
Professional Reference titles



Advanced Synthetic Materials in Detection Science

Subrayal Reddy

Hardback | 258 pages 9781849735933 | 2014 £145.00 | \$240.00

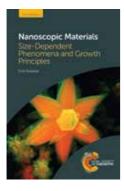


Metal Nanoparticles for Catalysis

Advances and Applications Franklin (Feng) Tao

Hardback | 266 pages 9781782620334 | 2014 £145.00 | \$240.00

Textbooks and course materials



Nanoscopic Materials

Size-Dependent Phenomena and Growth Principles, 2nd Edition

Emil Roduner

Hardback | 439 pages 9781849739078 | 2014 £79.99 | \$130.00

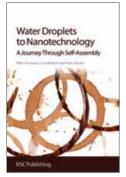


Edible Nanostructures

A Bottom-up Approach

Alejandro G Marangoni and David Pink

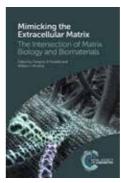
Hardback | 328 pages 9781849738958 | 2014 £84.99 | \$140.00



Water Droplets to Nanotechnology A Journey Through

Self-Assembly Plinio Innocenzi, Luca Malfatti and Paolo Falcaro

Hardback | 184 pages 9781849736640 | 2013 £59.99 | \$95.99



Mimicking the Extracellular Matrix

The Intersection of Matrix Biology and Biomaterials

Gregory A Hudalla and William L Murphy

Hardback | 300 pages 9781849738330 | 2014 £84.99 | \$140.00

Book Sales contact:

Tel: 01223 420066 **Fax:** 01223 420247

For sales queries or further information on our books publishing programme please contact **booksales@rsc.org**

Customers in USA or Canada should order from our distributor:

Ingram Publisher Services

Customer Service, Box 631 14 Ingram Blvd La Vergne TN 37086 USA

Tel: +1 (866) 400 5351

Fax: +1 (800) 838 1149

Email: ips@ingramcontent.com

Customer service hours of operation: Monday-Friday, 8.00am-5.00pm CST

The Royal Society of Chemistry's Assigned Toll Free Number: +1 (888) 790 0428

All other customers should send their orders to:

Marston Book Services Ltd

160 Eastern Avenue Milton Park Abingdon Oxfordshire OX14 4SB

Tel: +44 (0)1235 465577

Fax: +44 (0)1235 465556

Email orders: direct.orders@marston.co.uk Email enquiries: direct.enquiries@marston.co.uk

Royal Society of Chemistry www.rsc.org

Registered charity number: 207890 © Royal Society of Chemistry 2014

061410

Thomas Graham House Science Park, Milton Road Cambridge, CB4 0WF, UK

T +44 (0)1223 420066

Burlington House Piccadilly, London W1J 0BA, UK

T +44 (0)20 7437 8656

International Offices

São Paulo, Brazil Beijing, China Shanghai, China Berlin, Germany

Bangalore, India Tokyo, Japan Philadelphia, USA Washington, USA