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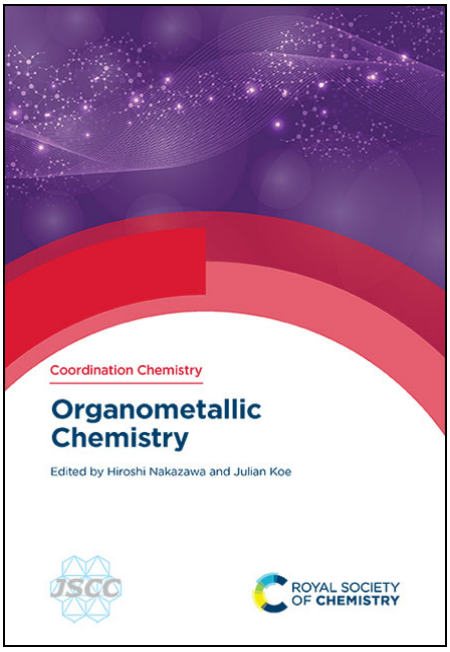

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Series: Coordination Chemistry Fundamentals
ISSN: 2635-1498
Publisher: Royal Society of Chemistry
ISBN: 978-1-83916-406-4
Price: £70.00 | $95.00
Publishing date: 19/07/2021
Target Audience: College/higher education
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 300
BIC: PNK, PNND
THEMA: PNK, PNND
BISAC: SCI013030, SCI013040

Organometallic Chemistry

Hiroshi Nakazawa Osaka City University, Japan
Julian Koe International Christian University, Japan

Synopsis

Designed for teaching, this book can be used as an introductory text for chemistry undergraduates and will also provide a bridge to more advanced courses. The book is split into two parts, the first acts as a concise introduction to the field, explaining fundamental organometallic chemistry. The latter covers cutting edge theories and applications, suitable for further study. Organometallic complexes are now well known and widely used. In addition, transition metal complexes with main group element other than carbon as a ligating atom are becoming more important. It is thus important to have a bird's-eye view of transition metal complexes, regardless of the ligand type. This book acts as solid introduction for chemistry students and newcomers in various fields who need to deal with transition metal complexes.

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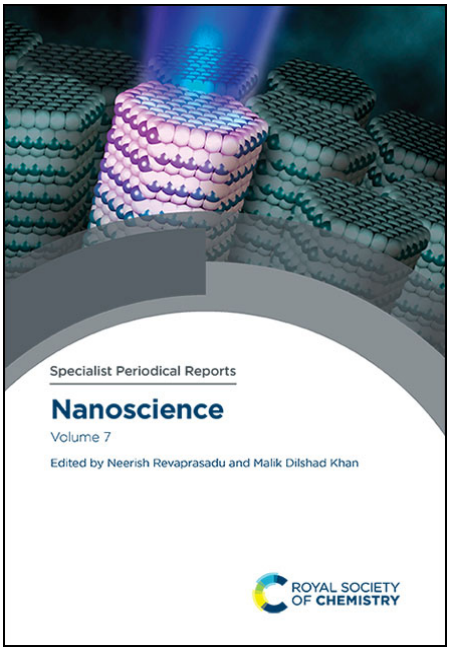

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Series: Specialist Periodical Reports
ISSN: 2049-3541
Publisher: Royal Society of Chemistry
ISBN: 978-1-83916-250-3
Price: £314.95 | $440.00
Publishing date: 14/07/2021
Target Audience: Professional and scholarly
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 302
BIC: TBN, TGM
THEMA: PDT, TBN
BISAC: TEC027000

Nanoscience
Volume 7

Neerish Revaprasadu University of Zululand, South Africa
Malik Dilshad Khan University of Zululand, South Africa

Synopsis

The field of nanoscience continues to grow and, with such a vast landscape of material, careful distillation of the most important discoveries will help researchers find the key information they require. Nanoscience provides a critical and comprehensive assessment of the most recent research and opinion from across the globe. Anyone practising in any nano-allied field, or wishing to enter the nano-world will benefit from this resource, presenting the current thought and applications of nanoscience.

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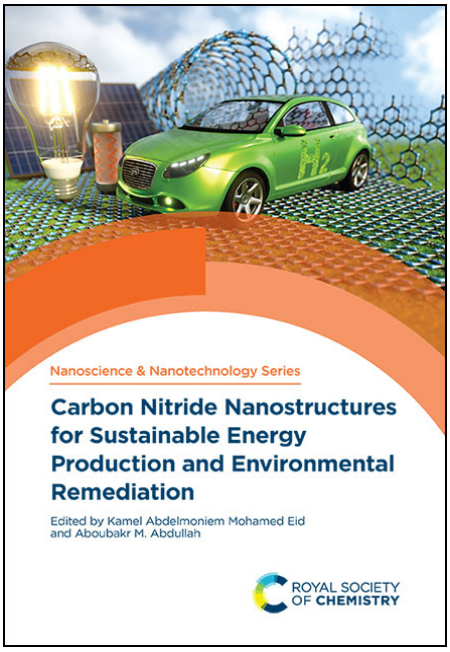

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Series: Nanoscience & Nanotechnology Series
ISSN: 1757-7136
Publisher: Royal Society of Chemistry
ISBN: 978-1-83916-213-8
Price: £169.00 | $235.00
Publishing date: 07/07/2021
Target Audience: College/higher education
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 378
BIC: TBN, TGM, THX, TQK
THEMA: PDT, TBN, TGM, THV, TQK
BISAC: SCI024000, SCI026000, SCI050000

Carbon Nitride Nanostructures for Sustainable Energy Production and Environmental Remediation

Kamel Abdelmoniem Mohamed Eid Qatar University, Qatar
Aboubakr M Abdullah Qatar University, Qatar

Synopsis

Applications of graphitic carbon nitride (gCN) have flourished in recent years in such fields as renewable energy production and environmental remediation. This book covers recent advances in the rational design and characterization of gCN nanostructures for energy and environmental remediation, and discusses achievements in fabrication approaches of gCN nanostructures using various chemical and physical approaches. With contributions from leading global researchers, this title will appeal to graduate students and researchers in nanoscience, chemistry, chemical engineering and materials science who are interested in developing new gCN materials or devices.

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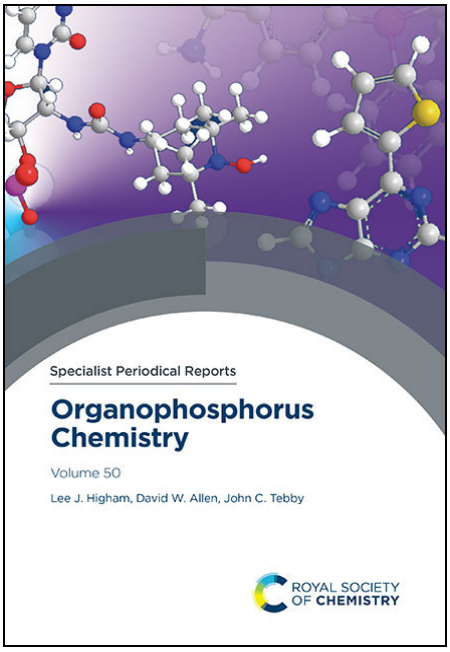

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Series: Specialist Periodical Reports
ISSN: 0306-0713
Publisher: Royal Society of Chemistry
ISBN: 978-1-83916-205-3
Price: £314.95 | $440.00
Publishing date: 23/07/2021
Target Audience: Professional and scholarly
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 484
BIC: PNN, TDC
THEMA: PNN, TDC
BISAC: SCI013040

Organophosphorus Chemistry
Volume 50

Lee J Higham Newcastle University, UK
David W Allen Sheffield Hallam University, UK
John C Tebby Sheffield Hallam University, UK

Synopsis

Marking its golden anniversary, this annual review of the literature presents a comprehensive and critical survey of the vast field of study involving organophosphorus compounds, from phosphines and related P-C bonded compounds to phosphorus acids, phosphine chalcogenides and green synthetic approaches in organophosphorus chemistry. The Editors have added a new chapter on homogeneous catalysis for bulk and fine chemicals. This chapter details the research in this area with phosphorus ligands and reflects current interest. With an emphasis on interdisciplinary content, this book will appeal to the worldwide organic chemistry and engineering research communities.

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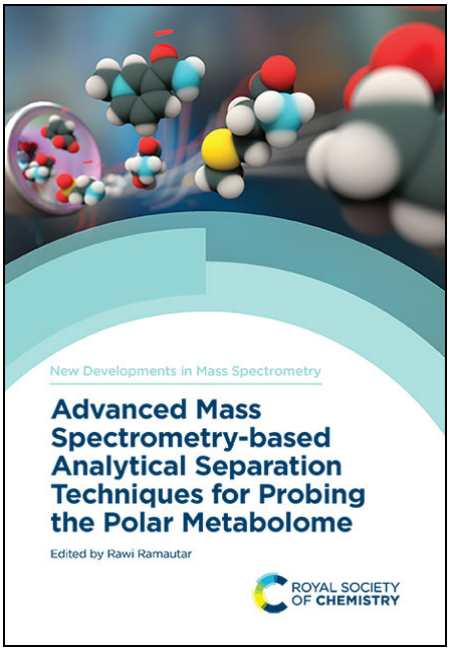

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Series: New Developments in Mass Spectrometry
ISSN: 2045-7545
Publisher: Royal Society of Chemistry
ISBN: 978-1-83916-163-6
Price: £169.00 | $235.00
Publishing date: 21/07/2021
Target Audience: Professional and scholarly
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 346
BIC: PNFS, PSB
THEMA: PNFS, PSB
BISAC: SCI007000, SCI013010

Advanced Mass Spectrometry-based Analytical Separation Techniques for Probing the Polar Metabolome

Rawi Ramautar Leiden University, The Netherlands

Synopsis

The efficient analysis of polar and charged metabolites in biological samples remains a huge challenge in the field of metabolomics. Novel mass spectrometry-based analytical tools have been developed to enable the sensitive and efficient profiling of polar ionogenic metabolites in various biological samples. This book gives the reader a comprehensive overview of these recent technological developments. Discussing the state-of-the-art of the proposed topics in one single book for probing the polar metabolome, using relevant examples, is unique and needed in the metabolomics field. This book has relevance and appeal to an international audience of analytical and biomedical researchers in industry and academia.

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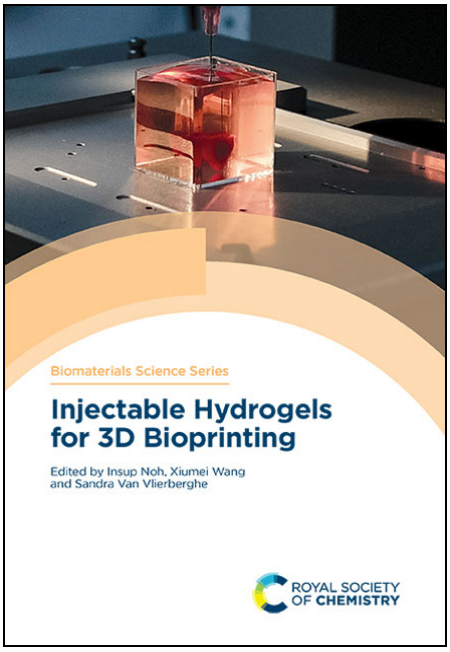

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Series: Biomaterials Science Series
ISSN: 2397-1401
Publisher: Royal Society of Chemistry
ISBN: 978-1-78801-883-8
Price: £179.00 | $250.00
Publishing date: 30/07/2021
Target Audience: Professional and scholarly
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 470
BIC: PNNP, TDCB, TGM
THEMA: PNNP, TGML
BISAC: TEC009010, TEC021040, TEC059000

Injectable Hydrogels for 3D Bioprinting

Insup Noh Seoul National University of Science and Technology, Korea
Xiumei Wang Tsinghua University, China
Sandra van Vlierberghe Ghent University, Belgium

Synopsis

Edited by three leaders in the field, users of this book will learn about different classes of hydrogels, properties and synthetic techniques to produce bioinks. A section devoted to the key processing and design challenges at the hydrogel/3D bioprinting/ tissue interface is also covered. The final section of the book closes with pertinent clinical applications.

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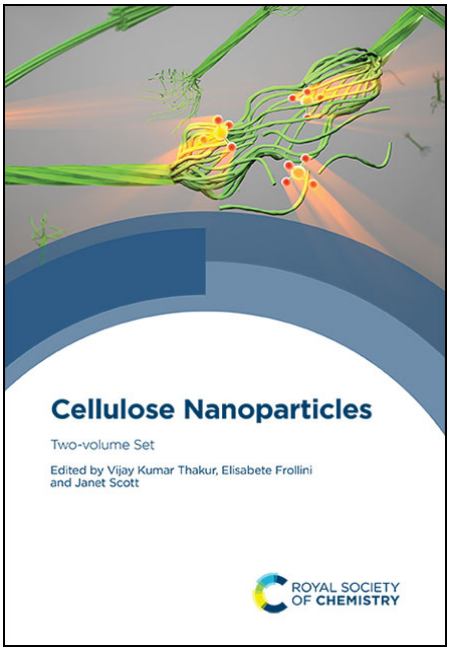

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Publisher: Royal Society of Chemistry
ISBN: 978-1-78801-799-2
Price: £320.00 | $440.00
Publishing date: 09/07/2021
Target Audience: College/higher education
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 775
BIC: PN, TBN, TCB, TGM
THEMA: PN, TBN, TCB, TGM
BISAC: SCI010000, SCI013000, SCI050000, TEC021000

Cellulose Nanoparticles
Two-volume Set

Vijay Kumar Thakur Scotland's Rural College (SRUC), UK
Elisabete Frollini University of Sao Paulo, Brazil
Janet Scott University of Bath, UK

Synopsis

Cellulose nanoparticles (CNP) are a class of bio-based nanoscale materials, which are of interest due to their unique structural features and properties such as biocompatibility, biodegradability, and renewability. This two-volume set covers Cellulose Nanoparticles: Chemistry and Fundamentals and Cellulose Nanoparticles: Synthesis and Manufacturing. Written by an international collection of contributors in the field, these books form a useful reference work for graduate students and researchers in chemistry, materials science, nanoscience and green nanotechnology.

Brief Contents

- *Cellulose Nanoparticles, Volume 1: Chemistry and Fundamentals*
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- *Cellulose Nanoparticles, Volume 2: Synthesis and Manufacturing*
ISBN: 978-1-78801-794-7

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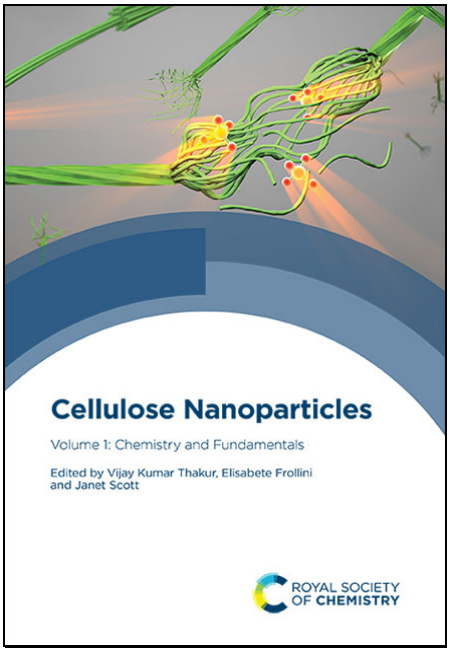

All information is subject to change without notice

Publisher: Royal Society of Chemistry
ISBN: 978-1-78801-793-0
Price: £199.00 | $275.00
Publishing date: 09/07/2021
Target Audience: College/higher education
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 628
BIC: PN, TBN, TCB, TGM
THEMA: PN, TBN, TCB, TGM
BISAC: SCI010000, SCI013000, SCI050000, TEC021000

Cellulose Nanoparticles
Volume 1: Chemistry and Fundamentals

Vijay Kumar Thakur Scotland's Rural College (SRUC), UK
Elisabete Frollini University of Sao Paulo, Brazil
Janet Scott University of Bath, UK

Synopsis

Cellulose nanoparticles (CNP) are a class of bio-based nanoscale materials, which are of interest due to their unique structural features and properties such as biocompatibility, biodegradability, and renewability. Cellulose Nanoparticles: Chemistry and Fundamentals covers the synthesis, characterization and processing of cellulose nanomaterials, aiming to address recent progress in production methodologies for cellulose nanoparticles, covering principal cellulose resources and the main processes used for isolation. Together with Volume 2, these books form a useful reference work for graduate students and researchers in chemistry, materials science, nanoscience and green nanotechnology.

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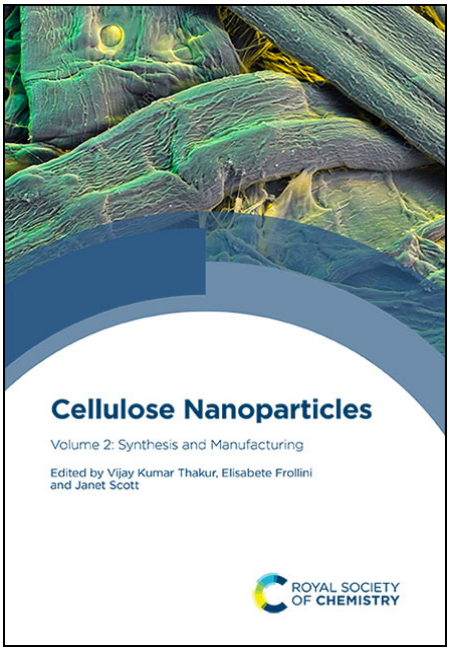

All information is subject to change without notice

Publisher: Royal Society of Chemistry
ISBN: 978-1-78801-794-7
Price: £179.00 | $250.00
Publishing date: 09/07/2021
Target Audience: College/higher education
Format: Hardback
Size: 234 x 156 (Royal 8vo) mm
Pages: 526
BIC: PN, TBN, TCB, TGM
THEMA: PN, TBN, TCB, TGM
BISAC: SCI010000, SCI013000, SCI050000, TEC021000

Cellulose Nanoparticles
Volume 2: Synthesis and Manufacturing

Vijay Kumar Thakur Scotland's Rural College (SRUC), UK
Elisabete Frollini University of Sao Paulo, Brazil
Janet Scott University of Bath, UK

Synopsis

Cellulose nanoparticles (CNP) are a class of bio-based nanoscale materials, which are of interest due to their unique structural features and properties such as biocompatibility, biodegradability, and renewability. This volume concentrates on advanced high performance cellulose nanocomposites. Together with Volume 1, these books form a useful reference work for graduate students and researchers in chemistry, materials science, nanoscience and green nanotechnology.

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