

CHEMISTRY

2024

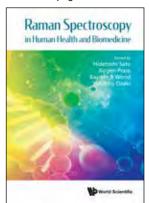




Highlights

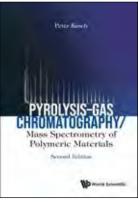
Chemistry Catalogue 2024

page 4



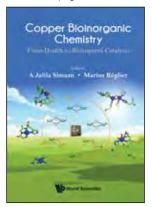
edited by **Hidetoshi Sato** (Kwansei Gakuin University, Japan), **Jürgen Popp** (Friedrich-Schiller University Jena, Germany), **Bayden R Wood** (Monash University, Australia) & **Yukihiro Ozaki** (Kwansei Gakuin University, Japan)

page **4**



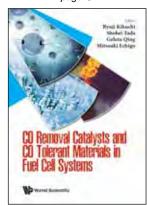
by **Peter Kusch** (Bonn-Rhein-Sieg University of Applied Sciences, Germany)

page 4



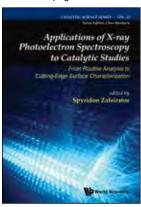
edited by A Jalila Simaan (Centre Nationale de la Recherche Scientifique, France & Aix Marseille Université, France) & Marius Réglier (Centre Nationale de la Recherche Scientifique, France & Aix Marseille Université, France)

page 5



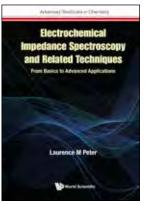
edited by **Ryuji Kikuchi**(The University of okyo, Japan),
Shohei Tada (Seikei University,
Japan), **Geletu Qing** (Michigan
State University, USA) & **Mitsuaki Echigo** (Osaka Gas
Co., Ltd, Japan)

page 5



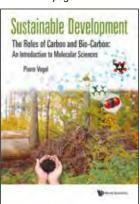
edited by **Spyridon Zafeiratos** (CNRS, France & University of Strasbourg, France)

page 6



by Laurence M Peter (University of Bath, UK)

page 7



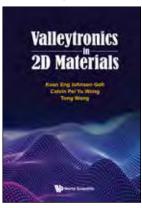
by **Pierre Vogel** (Swiss Institute of Technology in Lausanne (EPFL), Switzerland)

page **9**



edited by **Yinghuai Zhu** (HEC Pharm Co. Ltd., China)

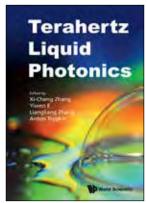
page 10



edited by Kuan Eng Johnson Goh (Agency for Science, Technology and Research (A*STAR), Singapore), Calvin Pei Yu Wong (Agency for Science, Technology and Research (A*STAR), Singapore) & Tong Wang (Agency for Science, Technology and Research (A*STAR),

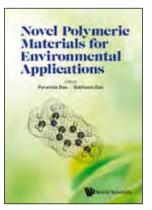
Singapore)

page **11**



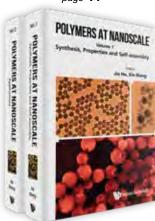
edited by Xi-Cheng Zhang (University of Rochester, USA), Yiwen E (University of Rochester, USA), Liangliang Zhang (Capital Normal University, China) & Anton Tcypkin (ITMO University, Russia)

page 11



edited by Paramita Das (Indian Institute of Science Education and Research (IISER) Bhopal, India) & Subhasis Das (The Energy and Resources Institute, India)

page **11**



edited by **Jie He** (University of Connecticut, USA) & **Xin Wang** (Songshan Lake Materials Laboratory, China)

About World Scientific Publishing

World Scientific Publishing is a leading independent publisher of books and journals for the scholarly, research, professional and educational communities. The company publishes about 600 books annually and over 170 journals in various fields. World Scientific collaborates with prestigious organisations like the Nobel Foundation & US National Academies Press, amongst others, to bring high quality academic and professional content to researchers and academics worldwide. To find out more about World Scientific, visit www.worldscientific.com

Interested in Writing a Book?

We would be delighted to hear from you if you have a book idea in mind. Contact any of our worldwide offices or email us at editor@worldscientific.com for more information. Alternatively, you can visit our website at www.worldscientific.com

Other Catalogues

We have produced these catalogues for the year 2024. Please email us at **marketing@feelbooks.in** to request for any of them.

- Asian Studies
- Business and Management
- Civil Engineering
- Computer Science
- Earth, Energy and Environmental Science
- Economics and Finance
- · Electrical and Electronics Engineering
- Life Sciences
- Mathematics
- Materials Science and Nanoscience
- Mechanical Engineering
- Medical Science
- Nonlinear Science
- Physics
- Popular Science

Stay Updated

Join our Mailing List to be informed of our latest publications, worldwide conferences, special offers on our books and journals, and much more!



To join, visit

https://wspc-newsletters.com/subscribe-iframe.php

Or email your contact information to us at marketing@feelbooks.in with "Chemistry" in the subject line.



CONTENTS

4	Analytical Chemistry
4	Biochemistry
5	Catalyst Chemistry
6	Computational Chemistry
6	Electrochemistry
7	Environmental / Atmospheric Chemistry
7	General Chemistry
9	Industrial Chemistry
9	Inorganic Chemistry
10	Materials Chemistry / Nanochemistry
10	Organic Chemistry
11	Photochemistry
11	Physical Chemistry
11	Polymer Chemistry
12	Solid State Chemistry
12	Supramolecular Chemistry
12	Surface / Interface Chemistry
12	Theoretical Chemistry / Quantum Chemistry
13	Featured Major Reference Works (MRW)
15	Journals
18	Author Index
18	Title Index





ANALYTICAL CHEMISTRY

RAMAN SPECTROSCOPY IN HUMAN HEALTH AND BIOMEDICINE

edited by **Hidetoshi Sato** (Kwansei Gakuin University, Japan), **Jürgen Popp** (Friedrich-Schiller University Jena, Germany), **Bayden R Wood** (Monash University, Australia) & **Yukihiro Ozaki** (Kwansei Gakuin University, Japan)

"There is every reason to expect that Raman spectroscopy will revolutionize medical diagnostics making it universal, accurate, easy, and non-invasive. The Editors of the book are top experts in the field, and the content is well thought and appropriate."

Igor K Lednev FRSC SUNY Distinguished Professor, University at Albany, USA

Readership: Academics, researchers, lecturers, and graduate students in spectroscopy and data science.

650pp Sep 2023 978-981-126-460-3 US\$178 £155 978-981-126-461-0(ebook) US\$285 £250

PYROLYSIS – GAS CHROMATOGRAPHY/ MASS SPECTROMETRY OF POLYMERIC MATERIALS

2nd Edition

by **Peter Kusch** (Bonn-Rhein-Sieg University of Applied Sciences, Germany)

Review of the First Edition:

"...I particularly liked the summary format which the author applied to each of the referenced

pristine and blended polymer types. Presenting an overview summary of polymer structure, characteristics, synthesis routes and application in addition to the pyrolytic fragmentation pattern information should be extremely useful to anyone working in the field of analytical characterization of polymeric materials."

Don Wright

Manager / Consultant, Georgetown, Texas

350pp Aug 2023 978-1-80061-298-3 US\$138 £110 978-1-80061-299-0(ebook) US\$221 £175

Essential Textbooks in Chemistry

PROBLEMS OF INSTRUMENTAL ANALYTICAL CHEMISTRY

A Hands-On Guide (2nd Edition)

by JM Andrade-Garda (University of A Coruña, Spain), A Carlosena-Zubieta (University of A Coruña, Spain), MP Gómez-Carracedo (University of A Coruña, Spain), MA Maestro-Saavedra (University of A Coruña, Spain), MC Prieto-Blanco (University of A Coruña, Spain), RM Soto-Ferreiro (University of A Coruña, Spain) & J Terán-Baamonde (University of A Coruña, Spain)

This book is intended to help undergraduate students of Instrumental Analytical Chemistry develop strategies to generate information from experimental results in an efficient and reliable way. The exercises will provide standard protocols that students can follow to address the most common calculation steps required in laboratory daily work. Easy-to-follow diagrams are included to facilitate understanding of the calculations and avoid common errors.

 460pp
 Mar 2024

 978-1-80061-443-7(pbk)
 US\$68
 £60

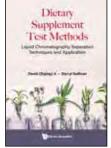
 978-1-80061-440-6
 US\$128
 £115

 978-1-80061-441-3(ebook)
 US\$205
 £180

DIETARY SUPPLEMENT TEST METHODS

Liquid Chromatography Separation Techniques and Application by **David (Dajing) Ji** (Analytical Laboratories in Anaheim, USA) & **Darryl Sullivan** (Eurofins Scientific, USA)

This book describes the analytical approach to testing over 160 important dietary supplement ingredients. The procedures in this book



include some of the most modern technologies that are available in the laboratory today. These basic principles of method development and troubleshooting can be implemented for food and food safety testing, drug development research, and agricultural areas. The contents of this book contain a very comprehensive collection of valuable analytical tools.

Readership: Dietary supplement manufacturer quality control laboratory, R&D department; Research scientists.

500pp May 2022 978-981-124-924-2 US\$158 £140 978-981-124-925-9(ebook) US\$253 £200

CHROMATOGRAPHIC AND RELATED SEPARATION TECHNIQUES IN FOOD INTEGRITY AND AUTHENTICITY

(In 2 Volumes)

Volume A: Advances in Chromatographic Techniques Volume B: Relevant Applications edited by Oscar Núñez (University of Barcelona, Spain) & Guillem Campmajó (University of Barcelona, Spain)

Volume A addresses fraud prevention and the latest chromatographic and related separation analytical techniques to guarantee food integrity and authenticity by giving special attention to relevant authenticity issues in food production. Volume B addresses the relevant application of techniques to assess different food products' integrity and authenticity.

Readership: Advanced undergraduate and graduate students, researchers and practitioners in the fields of food safety, control and authenticity, food control agencies.

532pp Sep 2021 978-1-78634-991-0(Set) US\$348 £305 978-1-78634-992-7(Set)(ebook) US\$557 £490



BIOCHEMISTRY

COPPER BIOINORGANIC CHEMISTRY

From Health to Bioinspired Catalysis edited by A Jalila Simaan (Centre Nationale de la Recherche Scientifique, France & Aix Marseille Université, France) & Marius Réglier (Centre Nationale de la Recherche Scientifique, France & Aix Marseille Université, France)

The seven chapters in this book, contributed by internationally recognized authors cover recent

developments on these aspects illustrated by interdisciplinary fields from biology, chemistry, spectroscopy to bioinspired catalysis. It contains aspects ranging from human health issues (copper homeostasis in bacteria and the development of molecules as anticancer or antibacterial agents) to bioinspired catalysis.

Readership: Masters/graduate students and researchers in copper bioinorganic chemistry and biological chemistry.

350рр	Aug 2023	
978-981-126-948-6	US\$138	£120
978-981-126-949-3(ebook)	US\$221	£195

4

ATALYSIS

CATALYST CHEMISTRY

CO REMOVAL CATALYSTS AND CO TOLERANT MATERIALS IN FUEL CELL SYSTEMS

edited by Ryuji Kikuchi (The University of okyo, Japan), Shohei Tada (Seikei University, Japan), Geletu Qing (Michigan State University, USA) & Mitsuaki Echigo (Osaka Gas Co., Ltd, Japan)

This book analyses the existing research on CO and CO² methanation to find key issues



to perform CO methanation selectively and demonstrates the process experimentally in an actual reactor scale. It offers a focus on a new deep CO removal process in polymer electrolyte fuel cells (PEFCs), including selective CO methanation catalysts and reactors, along with conventional CO abatement processes such as water gas shift and preferential oxidation of CO (PROX).

Readership: Catalyst researchers, chemical engineer, and chemist; advanced undergraduates and graduate students.

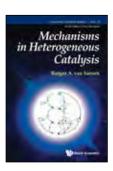
200pp	Feb 2024	
978-1-78634-502-8	US\$98	£86
978-1-78634-503-5(ebook)	US\$157	£125

Catalytic Science Series

MECHANISMS IN HETEROGENEOUS CATALYSIS

by **Rutger A van Santen** (Eindhoven University of Technology, The Netherlands)

"This new book by Rutger van Santen approaches the subject of heterogeneous catalysis from the understanding that can be gained from molecular physical chemistry. It is unique in this respect and will rapidly be adopted as the 'must read' text."



Graham J Hutchings CBE FRS
Regius Professor of Chemistry,
Cardiff University, UK

Readership: Researchers, graduate & undergraduate students in catalysis, surface science, chemistry.

716pp	Jul 2023	
978-1-80061-400-0	US\$188	£165
978-1-80061-401-7(ebook)	US\$301	£265

Catalytic Science Series - Vol 21

APPLICATIONS OF X-RAY PHOTOELECTRON SPECTROSCOPY TO CATALYTIC STUDIES

From Routine Analysis to Cutting-Edge Surface Characterization edited by **Spyridon Zafeiratos** (CNRS, France & University of Strasbourg, France)

The book aims to provide a comprehensive

overview of the current status and future perspectives of X-ray photoelectron spectroscopy dedicated to catalytic applications, including thermal catalysis, electrocatalysis, and photo(electro)catalysis. The book contains 13 chapters, starting with the necessary introduction of the technique background, including basic phenomena and instrumentation aspects.

Readership: Researchers and graduate students, working in the field of catalysis and materials science.

548pp Jul 2023 978-1-80061-328-7 US\$168 £150 978-1-80061-329-4(ebook) US\$269 £235

MODERN DEVELOPMENTS IN CATALYSIS

Volume 2

edited by **Graham Hutchings** (Cardiff University, UK), **Matthew Davidson** (University of Bath, UK), **Richard Catlow** (University College London, UK & Cardiff University, UK), **Christopher Hardacre** (University of Manchester, UK), **Nicholas Turner** (University of Manchester, UK), **Charlotte Williams** (University of Oxford, UK), **Adrian Mulholland** (University of Bristol, UK).

Josie Goodall (UK Catalysis Hub, UK & Cardiff University, UK) & Chris Mitchell (SABIC UK Petrochemicals Ltd, UK)

The book provides a review and update of current research and practice on catalysis. Topics range from the treatment of water using novel techniques for carbon neutrality, cutting-edge techniques using intense radiation including Operando Synchrotron Infrared Microspectroscopy to innovation in homogeneous catalysis, heterogeneous catalysis and biocatalysis.

640pp	Mar 2023	
978-1-80061-200-6	US\$188	£150
978-1-80061-201-3(ebook)	US\$301	£240

Advanced Textbooks in Chemistry - Vol 2

INTRODUCTION TO HETEROGENEOUS CATALYSIS

2nd Edition

by Roel Prins (ETH Zürich, Switzerland), Anjie Wang (Dalian University of Technology, China), Xiang Li (Tianjin University of Science and Technology, China) & Foteini Sapountzi (Syngaschem BV, The Netherlands)

Review of the First Edition:

"The book is very nicely illustrated with diagrams and figures, many that are unique in their presentation, and the text is punctuated by photographs of famous historical figures. There are also problems at the back of each chapter which are useful and, in many cases, thought-provoking. This is a must-have book in the personal library of people interested in catalysis."

Professor S Ted Oyama

Heterogeneous Catalysis

The University of Tokyo, Japan & Virginia Tech, USA

412pp	Jul 2022	
978-1-80061-161-0(pbk)	US\$58	£45
978-1-80061-150-4	US\$108	£85
978-1-80061-151-1(ebook)	US\$173	£140

Series on Chemistry, Energy and the Environment - Vol 9

TOPICS IN ENANTIOSELECTIVE CATALYSIS

Recent Achievements and Future Challenges

edited by **Angela Marinetti** (CNRS-ICSN, France & Paris-Saclay University, France)

This book illustrates the broad field of enantioselective catalysis by highlighting a few

topics, out of myriads, with the double aim to typify selected synthetic achievements and future challenges. Eleven research groups have highlighted topics of interest in either organo- or organometallic catalysis, related to their own expertise.

Readership: Graduate students, researchers and professionals in Catalyst chemistry and Organic Chemistry.

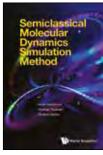
500pp	Sep 2022	
978-981-124-842-9	US\$158	£125
978-981-124-843-6(ebook)	US\$253	£200



COMPUTATIONAL CHEMISTRY

SEMICLASSICAL MOLECULAR **DYNAMICS SIMULATION METHOD**

by Hiroki Nakamura (National Institutes of Natural Sciences, Japan & Graduate University for Advanced Studies, Japan), Yoshiaki Teranishi (National Yang Ming Chiao Tung University, Taiwan) & Shinkoh Nanbu (Sophia University, Japan)



"Hiroki Nakamura is one of the world leaders of quantum dynamics in molecules. While he published many significant works, the most important is the Zhu-Nakamura theory, which is unique, gives one of the last complete solutions to the Schrödinger equations, and overcomes the defects of the Landau-Zener theory. Since it was developed in 1994, Nakamura and his collaborators have been continuously expanding the realm of its applicability to various quantum dynamics problems. This new book will summarize the many fruits of his lifework. I strongly recommend it."

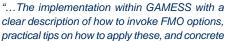
Yuko Okamoto

Professor Emeritus, Nagoya University, Japan

200pp Mar 2024 978-981-126-634-8 **US\$88** £75 US\$141 978-981-126-635-5(ebook) £125

COMPLETE GUIDE TO THE FRAGMENT MOLECULAR **ORBITAL METHOD IN GAMESS**

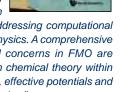
From One Atom to a Million, at your Service by Dmitri G Fedorov (National Institute of Advanced Industrial Science and Technology (AIST), Japan)



examples will be of great practical value in addressing computational materials problems in biology, chemistry, and physics. A comprehensive treatment of both fundamental and practical concerns in FMO are included: the use of various levels of quantum chemical theory within FMO, PIEDA, segmentation and fragmentation, effective potentials and grids, and massively scaling up the calculation size."

Kang Hway Chuan **Associate Professor of Chemistry National University of Singapore**

328pp Mar 2023 978-981-126-362-0 US\$118 £95 US\$189 978-981-126-363-7(ebook) £150



ELECTROCHEMISTRY

AQUEOUS ZINC BATTERIES

edited by Hongjin Fan (Nanyang Technological University, Singapore)

This book is uniquely placed to be a compendium of the state of the art by key players in the field with diverse and complementary sets of expertise. It will cover all parts of the device, including electrode design, electrolyte engineering, different battery design, flexible devices, and thermal protection.



Readership: Academics, researchers and graduate students in the battery science and electrochemistry.

500pp Dec 2023 US\$168 £150 978-981-127-831-0 US\$269 £235 978-981-127-832-7(ebook)

Advanced Textbooks in Chemistry

ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY AND RELATED TECHNIQUES

From Basics to Advanced Applications by Laurence M Peter (University of Bath, UK)

This book begins by introducing the basic concepts of impedance to non-specialist readers who have only an elementary knowledge of physics and mathematics. Mathematical



concepts are explained clearly at appropriate points in a series of Theory Notes. Subsequent chapters cover RCL (resistor, capacitor, inductor) circuits, with many simulated examples, before moving on to develop key ideas relating to the application of impedance spectroscopy to electrochemical systems.

Readership: Postgraduate students and professionals in the industries of chemistry, physics, materials science.

200pp Nov 2023 978-1-80061-450-5 US\$98 £85 978-1-80061-451-2(ebook) US\$157 £140

Series on Chemistry, Energy and the Environment - Vol 10

ELECTROCHEMISTRY OF METALLOPORPHYRINS

by Karl M Kadish (University of Houston, USA), W Ryan Osterloh (University of Houston, USA) & Eric Van Caemelbecke (University of Houston, USA)

The book covers all aspects of porphyrin electrochemistry in nonaqueous media and



should be of benefit and interest to beginning graduate students as well as experienced researchers in many fields of porphyrin chemistry where electrochemistry is known to play a key role in influencing properties of the compounds as well as mechanisms and biological functions. The first half of the book is aimed at non-experts in the field of electrochemistry who would like to begin studies on porphyrin electrochemistry followed by detailed examples of how changes in the central metal ion of a given metalloporphyrin will affect its redox properties. The scope of the work covers the period in the literature between the mid-1960s and mid-2022 and expands greatly upon several earlier reviews by the senior author.

Readership: Graduate students and researchers in porphyrin electrochemistry.

644pp Jul 2023 978-981-126-761-1 US\$188 £165 978-981-126-762-8(ebook) US\$301 £265

Catalytic Science Series - Vol 20

supercapacitors.

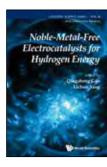
NOBLE-METAL-FREE ELECTROCATALYSTS FOR HYDROGEN ENERGY

edited by Qingsheng Gao (Jinan University, China) & Lichun Yang (South China University of Technology, China)

The chapters within contain cutting-edge breakthroughs, horizons, and insights into functional materials for energy applications.

This book contains over 3000 references and 200 figures, and is a highly valuable resource for scientists, students, and engineers working in the fields of electrochemistry, catalysis, fuel cells, batteries, and

608pp Oct 2022 978-1-80061-156-6 US\$198 £175 US\$317 £255 978-1-80061-157-3(ebook)



NORTH LICENSES

ENVIRONMENTAL / ATMOSPHERIC CHEMISTRY

INTRODUCTION TO EMERGING FIELDS IN MATERIALS SUSTAINABILITY

by Pankaj Pathak (SRM University Andhra Pradesh, India), Susmita Sharma (National Institute of Technology Meghalaya, India), Ramadoss Tamil Selvan (National University of Singapore, Singapore) & Seeram Ramakrishna (National University of Singapore, Singapore)



"This excellent new book covers important concepts of sustainability focusing on materials and their waste streams... The materials sector is extremely dynamic and is providing a pipeline of new and novel solutions to meet mankind's needs in imaginative but sustainable ways. These future trends are covered and should allow the readers to develop their own opinions on how society can seek carbon neutrality whilst continuing to meet its demands for products, services, and infrastructure."

Paul Hogg

Professor, Royal Holloway University of London, UK

200pp Apr 2024 978-981-124-764-4 US\$78 £70 978-981-124-765-1(ebook) US\$125 £100

Analysis: Historical Cases in Chemistry - Vol 1

GREEN CHEMISTRY AVANT LA LETTRE

Pine Institute and Resin Chemistry in Aquitaine (1900 – 1970) by Marcin Krasnodębski (Polish Academy of Sciences, Poland)

This book explains the success of the material itself and of the scientific-industrial network that made it possible to exploit it sustainably over many decades. It carefully examines its organisational features, relations with the local economy, as well as the core elements of resin chemistry as an independent discipline prefigurating sustainable chemistry of today. The book constitutes an original and pioneering work on the origins of some of the ideas that are being labeled today as green or sustainable chemistry.

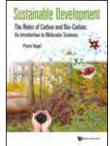
Readership: Undergraduate, graduate students and researchers of resin chemistry.

350pp Apr 2024 978-981-125-285-3 US\$118 £95 978-981-125-286-0(ebook) US\$189 £150

SUSTAINABLE DEVELOPMENT

The Roles of Carbon and Bio-Carbon: An Introduction to Molecular Sciences by **Pierre Vogel** (Swiss Institute of Technology in Lausanne (EPFL), Switzerland)

This textbook is an introduction to the molecular sciences and shows how we depend on carbon compounds, what they are and how they are transformed. This book contains 100 problems and solutions; more than 180 colour pages; and hibliographical skytches of most important science.



bibliographical sketches of most important scientists and inventors.

Readership: Pre-university, undergraduate students and teachers interested in sustainable development

612pp Sep 2022 978-981-124-048-5 US\$158 £140 978-981-124-049-2(ebook) US\$253 £200



GENERAL CHEMISTRY

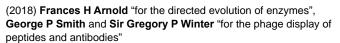
NOBEL LECTURES IN CHEMISTRY (2016 – 2020)

edited by Sven Lidin (Lund University, Sweden)

List of Nobel laureates and their award citations: (2016) Jean-Pierre Sauvage, Sir J Fraser

Stoddart and Bernard L Feringa "for the design and synthesis of molecular machines"

(2017) Jacques Dubochet, Joachim Frank and Richard Henderson "for developing cryoelectron microscopy for the high-resolution structure determination of biomolecules in solution"



(2019) **John B Goodenough, M Stanley Whittingham** and **Akira Yoshino** "for the development of lithium-ion batteries"

(2020) Emmanuelle Charpentier and Jennifer A Doudna "for the development of a method for genome editing"

550pp	Jan 2024	
978-981-126-057-5	US\$158	£125
978-981-126-058-2(ebook)	US\$253	£200

NOBEL LECTURES IN CHEMISTRY (2011 – 2015)

edited by Sven Lidin (Lund University, Sweden)

List of Nobel laureates and their award citations: (2011) **Dan Shechtman** "for the discovery of quasicrystals"

(2012) **Robert J Lefkowitz** and **Brian K Kobilka** "for studies of G-protein-coupled receptors"

(2013) Martin Karplus, Michael Levitt and Arieh Warshel "for the development of multiscale models for complex chemical systems"

(2014) **Eric Betzig**, **Stefan W Hell** and **William E Moerner** "for the development of super-resolved fluorescence microscopy"

(2015) **Tomas Lindahl**, **Paul Modrich** and **Aziz Sancar** "for mechanistic studies of DNA repair".

544pp	Apr 2022	
978-981-124-681-4(pbk)	US\$98	£80
978-981-124-555-8	US\$158	£125
978-981-124-556-5(ebook)	US\$253	£200

HANDBOOK OF SCIENTIFIC TABLES

by National Astronomical Observatory of Japan

This data book of scientific information is an essential guide for all STEM researchers, teachers and students. It comprises six sections on astronomy, meteorology, physics/chemistry, earth science, biology, and environmental science. It also serves historical data such as



earthquakes and volcanic activities and geographical data such as rivers and lakes of the world

Readership: Undergraduate, graduate and research students; research professionals; general public.

1056pp	May 2022	
978-981-127-700-9(pbk)	US\$88	£75
978-981-3278-51-6	US\$268	£215
978-981-3278-52-3(ebook)	US\$429	£345



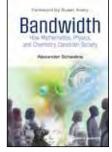
NORTH EXCEPTION

o

BANDWIDTH

How Mathematics, Physics, and Chemistry Constrain Society by **Alexander Scheeline** (*University of Illinois* at *Urbana-Champaign*, *USA*)

"In Bandwidth, Alex Scheeline describes how we get trapped in wells of information while struggling to perceive the universe. Science is only one of many possible wells, he argues, while agreeing that spiritual understandings of



the universe are also valid. Scheeline makes a persuasive argument that certain core insights from science constrain how society functions, despite one's spiritual beliefs. As he puts it, 'gravity can be resented, but it can't be ignored."

Raima Larter

Former Professor of Chemistry, Indiana University – Purdue University Indianapolis, USA

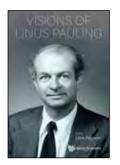
Readership: General readers and scientists.

448pp	Jun 2023	
978-981-123-854-3(pbk)	US\$48	£40
978-981-123-787-4	US\$108	£95
978-981-123-788-1(ebook)	US\$173	£150

VISIONS OF LINUS PAULING

edited by Chris Petersen (Oregon State University, USA)

In a stunningly original examination of the two-time Nobel Laureate, author touches upon the major eras of Pauling's life and dials into specific episodes, themes, accomplishments, and failures at a level of detail that has not been put forth elsewhere. Topics exclusively covered here include Pauling's generative process as author of the groundbreaking text



The Nature of the Chemical Bond and the colorful history of the Linus Pauling Institute; his symbiotic relationship with the W H Freeman & Co. publishing house; two entirely separate clashes with the United States Senate and the Soviet Academy of Science; and the story of his brilliant and troubled son Peter.

396pp	Oct 2022	
978-981-126-075-9	US\$78	£60
978-981-126-076-6(ebook)	US\$125	£100

O MG! HOW CHEMISTRY CAME TO BE

by Stephen M Cohen

"This book is a graphic novel which tells you the story of chemistry, how it started and progressed, and of many major discoveries. It takes the reader on a journey from ancient science to the present day, using a character called Ben Zene to narrate it ... This book deserves to be widely read and used if we are to increase the



prominence of chemistry in both the public consciousness and on the popular science shelves in bookshops. Chemists who are historically inclined will delight in the detail and those involved in education should find plenty to inspire their students ... "

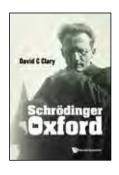
The Royal Society of Chemistry

224pp	Jul 2022	
978-981-126-223-4(pbk)	US\$39.95	£30
978-981-125-040-8	US\$78	£60
978-981-125-041-5(ebook)	US\$125	£100

SCHRÖDINGER IN OXFORD

by David C Clary (University of Oxford, UK)

"This is a biography of a towering figure in the most marvellous century of science, just past. The delight of this book is to share with its reader the miracle of Schrö dinger's equation in which it was revealed how solid matter partakes of the properties of waves. The reader will learn that even the most solitary scientist depends on the brilliance of his colleagues, and also on the existence of great centres of learning."



John Polanyi FRS

Nobel Laureate in Chemistry, 1986

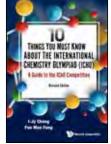
20pp Mar 2022		
978-981-125-100-9(pbk)	US\$38	£35
978-981-125-000-2	US\$98	£85
978-981-124-996-9(ebook)	US\$157	£135

10 THINGS YOU MUST KNOW ABOUT THE INTERNATIONAL CHEMISTRY OLYMPIAD (ICHO)

A Guide to the IChO Competition Revised Edition

by I-Jy Chang (National Taiwan Normal University, Taiwan) & Fun Man Fung (National University of Singapore, Singapore)





Development Goals (SDGs), it is even more important to clarify the role of chemistry in this endeavour. Chemistry lies at the heart of many of the 17 SDGs ... The future of our planet will depend on how the next generation of scientists and chemists address these issues ... As an ardent supporter of international collaboration and chemistry outreach, I am pleased that the IChO is able to foster bonds and form friendships among the international chemistry community ..."

Professor TAN Choon Hong

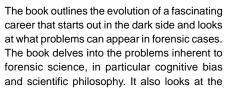
Chair, School of Physical and Mathematical Sciences, Nanyang Technological University Immediate Past President,

Singapore National Institute of Chemistry Executive Board Member, Commonwealth Chemistry

224pp	Mar 2023	
978-981-121-737-1	US\$58	£50
978-981-121-738-8(ebook)	US\$98	£85

JOINING THE DARK SIDE

The Role of the Forensic Science Defence Expert by **David Schudel**





emotional impact and specific challenges behind forensic science and provides the reader with some sage advice on giving evidence in Court.

220pp	Sep 2022	
978-1-80061-256-3(pbk)	US\$28	£20
978-1-80061-244-0	US\$58	£45
978-1-80061-245-7(ebook)	US\$98	£80

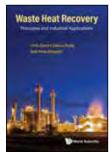


INDUSTRIAL CHEMISTRY

WASTE HEAT RECOVERY

Principles and Industrial Applications by Chirla Chandra Sekhara Reddy & Gade Pandu Rangaiah (National University of Singapore, Singapore)

This book presents a comprehensive coverage of fundamentals, latest technologies and industrial applications of Waste Heat Recovery (WHR) in process industries. Simple and effective WHR techniques are illustrated with



industrial examples, to help readers to identify, calculate and develop heat recovery potential in their processes. Techniques for reaping benefits of WHR projects for longer periods are also outlined. Applying these techniques with an understanding of the principles explained in this book, and taking cues from the examples and suggestions, the reader will be able to realise sustained benefits in their process.

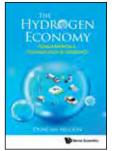
Readership: Students, researchers, professionals, and practitioners in chemical/process/energy engineering.

Jun 2022 884pp 978-981-124-839-9 **US\$198** £160 978-981-124-840-5(ebook) US\$338 £270

THE HYDROGEN ECONOMY

Fundamentals, Technology, Economics by Duncan Seddon (Duncan Seddon & Associates Pty. Ltd, Australia)

The book covers the various means and costs of production from fossil fuels (with carbon capture) - blue hydrogen - electrolysis green hydrogen - or biomass. The book covers hydrogen storage as liquid or compressed gas and transport, through pipelines as liquid or by



an intermediary fluid such as ammonia or a hydrocarbon. The book also discusses the production and costs of hydrogen delivery at the user end of a logistics chain. It also compares the relative energy value of energy delivered hydrogen versus the current suite of conventional fuels.

Readership: Academics and researchers in industrial chemistry, chemical engineering, and inorganic chemistry.

312pp May 2022 978-981-124-854-2 US\$108 £85 978-981-124-855-9(ebook) US\$173 £140

INORGANIC CHEMISTRY

FRONTIERS IN BORON-BASED **MEDICINAL CHEMISTRY**

edited by Yinghuai Zhu (HEC Pharm Co. Ltd., China)

"Boron neutron capture therapy (BNCT) has emerged as a promising method in cancer treatment. The book covers broad areas in BNCT research, so it is of interest to both academia and the pharmaceutical industry." Xuanjun Zhang



Associate Professor, University of Macau, China

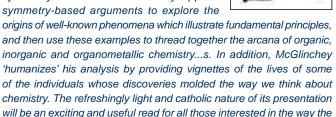
Readership: Industrial scientists, academics, and graduate students in medicinal/pharmaceutical chemistry, drug design/development, nanomedicine and cancer research.

232pp May 2023 **US\$88** 978-981-126-796-3 £75 978-981-126-803-8(ebook) US\$141 £125

MAKING AND BREAKING **SYMMETRY IN CHEMISTRY**

Syntheses, Mechanisms and Molecular Rearrangements by Michael J McGlinchey (University College Dublin, Ireland)

"This book illustrates how chemical reactivity is controlled by molecular and electronic symmetry. Professor McGlinchey applies



molecular and electronic structure control chemistry." Richard Oakley **Emeritus Professor,** University of Waterloo, Canada

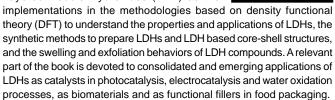
292pp Apr 2022 978-981-124-965-5 US\$98 £80 978-981-124-966-2(ebook) US\$157 £130

Series on Chemistry, Energy and the Environment - Vol 8

PROGRESS IN LAYERED **DOUBLE HYDROXIDES**

From Synthesis to New Applications edited by Morena Nocchetti (University of Perugia, Italy) & Umberto Costantino (University of Perugia, Italy)

This book addresses basic aspects of Layered Double Hydroxides (LDH) as the



May 2022 528pp US\$168 978-981-124-060-7 £135 978-981-124-061-4(ebook) US\$269 £215

THE LANTHANIDES AND **ACTINIDES**

Synthesis, Reactivity, Properties and **Applications** edited by Stephen T Liddle (The University

of Manchester, UK), David P Mills (The University of Manchester, UK) & Louise S Natrajan (The University of Manchester, UK)

This is an introduction to and comprehensive



d Actinides

coverage of f-block chemistry encompassing the following areas: periodicity, natural occurrence and extraction, separations, electronic structure, coordination chemistry, organometallic chemistry, small molecule activation, catalysis, organic synthesis applications, magnetism, spectroscopy, computation, materials, photonics, solar cell technology, biological imaging, and technological applications.

Readership: Academics, postgraducates and advanced graducates.

728pp	Mar 2022	
978-1-80061-015-6	US\$198	£160
978-1-80061-016-3(ebook)	US\$317	£255

10

MATERIALS CHEMISTRY / NANOCHEMISTRY

VALLEYTRONICS IN 2D MATERIALS

edited by Kuan Eng Johnson Goh (Agency for Science, Technology and Research (A*STAR), Singapore), Calvin Pei Yu Wong (Agency for Science, Technology and Research (A*STAR), Singapore) & Tong Wang (Agency for Science, Technology and Research (A*STAR), Singapore)

2D Materials "This is a timely book — the field of valleytronics

is emerging and I have yet to see a book on

this topic; and the field of 2D materials is just publishing its first books. Valleytronics in 2D Materials introduces the brief history of valleytronics. the valley physics of 2D semiconductors, and recent attempts to engineer valley devices for practical purposes. The field is still developing, and this book will provide a useful reference for researchers in the field."

Andrew Wee

PLASMONICS

Valleytronics

Professor of Physics, National University of Singapore

Readership: Researchers, postgraduate in valleytronics, 2D materials, solid-state chemistry & semiconductors.

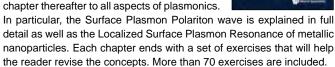
360pp Jul 2023 978-981-122-909-1 US\$138 £120 US\$221 978-981-122-910-7(ebook) £175

Advanced Textbooks in Physics

AN INTRODUCTION TO **PLASMONICS**

by Olivier Pluchery (Sorbonne University, France) & Jean-François Bryche (CNRS, France & Sherbrooke University, Canada)

This book starts with the concepts of wave and the electromagnetic description of light when it interacts with metals and then dedicates every chapter thereafter to all aspects of plasmonics.



Readership: Academia. Graduate students. PhD students and researchers in plasmonics.

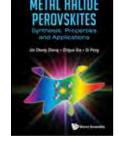
334pp Aug 2023 978-1-80061-339-3 US\$88 £75 £125



METAL HALIDE PEROVSKITES

Synthesis, Properties and Applications by Jin Zhong Zhang (University of California Santa Cruz, USA), Zhiguo Xia (South China University of Technology, China) & Qi Pang (Guangxi University, China)

This unique compendium covers systematically the fundamental aspects of synthesis, properties, and applications of metal halide perovskites that exhibit unique properties and useful functionalities. This is a reference text



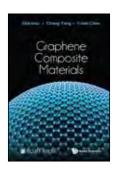
provides a good balance between fundamental concepts/principles and related recent researches with many highlighted examples.

Readership: Researchers, academics & graduate students.

260pp Apr 2023 978-981-125-741-4 **US\$98** £85 978-981-125-742-1(ebook) US\$157 £140

GRAPHENE COMPOSITE MATERIALS

by Sijia Hao (Beijing Institute of Aeronautical Materials, China & Beijing Institute of Graphene Technology Co. Ltd., China), Cheng Yang (Beijing Institute of Aeronautical Materials, China & Beijing Institute of Graphene Technology Co. Ltd., China) & Yubin Chen (Beijing Institute of Aeronautical Materials, China & Beijing Institute of Graphene Technology Co. Ltd., China)



This unique compendium introduces in detail the basic theory, process methods, property evaluation, research progress, development trend, and basic scientific issues in the combination of graphene and its composite materials in recent years. The reference text focuses on four categories of graphene composite materials based on the matrix materials, metal, resin, rubber composites, and composite coatings. The research background, research achievements, and possible applications in the corresponding fields of each section are also reviewed.

Readership: Researchers, academics & graduate students.

352pp Jul 2023 978-981-127-678-1 **US\$138** £120 978-981-127-679-8(ebook) US\$221 £195

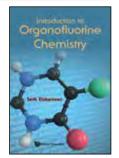
ORGANIC CHEMISTRY

Textbook

INTRODUCTION TO ORGANOFLUORINE CHEMISTRY

by Seth Elsheimer (University of Central Florida, USA)

This comprehensive and well-structured book is divided into seven sections of 28 chapters. Readers are first introduced to the privileged role and landmark developments of the ninth element, its physical chemistry, and its



fascinating effects on reactive intermediates. The second half of the text covers the synthesis, reactions and analysis of organofluorine compounds. The astonishing ability of fluoroorganics to exert their importance in a plethora of fields is sketched out in the final segment.

Readership: Graduate/advanced undergraduates students in organic chemistry. Academic and researchers.

300рр	Jun 2024	
978-981-127-633-0(pbk)	US\$58	£50
978-981-127-549-4	US\$108	£95
978-981-127-550-0(ebook)	US\$173	£150

MODERN SUSTAINABLE TECHNIQUES IN TOTAL SYNTHESIS OF BIOACTIVE **NATURAL PRODUCTS**

by Sasadhar Majhi (Kazi Nazrul University, India) & Bhubaneswar Mandal (Indian Institute of Technology Guwahati, India)

The book comprises five parts for green tools, such as ultrasonic waves, microwave heating, visible-light photochemistry, organic



electrochemistry, and flow chemistry, along with 72 chapters for each bioactive molecule of natural origin. Each chapter explores the natural source, structure, systematic name, structural features, compound class, biological activity, conventional approaches for their chemical synthesis, and demerit(s) of conventional approaches (where applicable).

Readership: Researchers and students.

468pp	May 2023	
978-981-126-868-7	US\$158	£140
978-981-126-869-4(ebook)	US\$253	£220

Novel Polymeric Materials for

Environmental

Applications

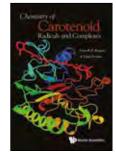
11

PHOTOCHEMISTRY

CHEMISTRY OF CAROTENOID RADICALS AND COMPLEXES

by Lowell D Kispert (University of Alabama, Tuscaloosa, USA) & A Ligia Focsan (Valdosta State University, USA)

This book introduces the chemistry of carotenoid radicals, and additionally present studies on special carotenoid complexes. The book provide instructive procedures for various measurement techniques on carotenoid radicals and complexes (optical,



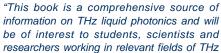
electrochemical, electron paramagnetic resonance, density functional theory), and analyze examples. Inclusion complexes of carotenoids with different bio-delivery systems are discussed in a final application chapter.

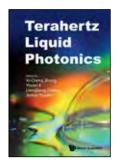
Readership: Academic and industrial scientists, graduate and senior undergraduate students.

Jan 2024 200pp 978-981-127-834-1 US\$88 £75 978-981-127-835-8(ebook) US\$141 £125

TERAHERTZ LIQUID **PHOTONICS**

edited by Xi-Cheng Zhang (University of Rochester, USA), Yiwen E (University of Rochester, USA), Liangliang Zhang (Capital Normal University, China) & Anton Tcypkin (ITMO University, Russia)





science, laser physics, plasma, and light-matter interaction. The lead editor is one of the champions in the world in THz research and the pioneer of THz liquid photonics."

> Jinghua Teng Principal Scientist, IMRE, A*STAR, Singapore

Readership: Academics, researchers, lecturers, and graduate students in terahertz photonics and spectroscopy, laser physics, AMO physics, ultrafast science.

Sep 2023 250pp 978-981-126-563-1 US\$98 £85 978-981-126-564-8(ebook) US\$157 £140

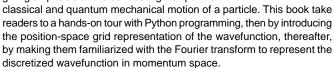
PHYSICAL CHEMISTRY

IISc Lecture Notes Series - Vol 7

INTRODUCTION TO TIME-DEPENDENT QUANTUM MECHANICS WITH PYTHON

by Atanu Bhattacharya (GITAM University, India) & Elliot R Bernstein (Colorado State University, USA)

Different concepts of time-dependent quantum mechanics are systematically presented by first giving emphasis on the contrasting viewpoint of



Readership: Advanced undergraduate, graduate students, researchers and practitioners.

300pp Nov 2023 978-981-127-716-0 **US\$98** £85 978-981-127-717-7(ebook) US\$157 £140

UNDERSTANDING ADVANCED CHEMISTRY THROUGH PROBLEM SOLVING

The Learner; s Approach (In 2 Volumes) by Kim Seng Chan (Eunoia Junior College, Singapore) & Jeanne Tan

Written for students taking either the University of Cambridge Advanced Level examinations or the International Baccalaureate examinations, this quidebook covers essential topics and concepts under both stipulated chemistry syllabi. The book is written in such a way as to guide the reader through the understanding and applications of essential chemical concepts using the problem-solving approach

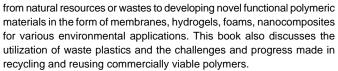
Dec 2023 700nn 978-981-128-979-8(pbk) US\$48 £40 978-981-128-968-2 US\$158 £140

POLYMER CHEMISTRY

NOVEL POLYMERIC MATERIALS FOR ENVIRONMENTAL APPLICATIONS

edited by Paramita Das (Indian Institute of Science Education and Research (IISER) Bhopal, India) & Subhasis Das (The Energy and Resources Institute, India)

This book contains eleven comprehensive chapters covering topics from deriving polymers



Readership: The academicians, students, researchers, technologists, and environmental professionals working on polymer-based materials.

496pp May 2023 978-981-126-592-1 US\$148 £130 US\$237 £210 978-981-126-593-8(ebook)

POLYMERS AT NANOSCALE

(In 2 Volumes)

Volume 1: Synthesis, Properties and Self-assembly

Volume 2: Applications

edited by Jie He (University of Connecticut, USA) & Xin Wang (Songshan Lake Materials Laboratory, China)

This book covers the basics and recent advances in polymer nanoparticles, including polymer synthesis, selfassembly, properties, and applications. broadly ranged from single chain collapse to polymerization methods and wide range of advanced applications fields that include pharmaceutics (drug (bioimaging, diagnosis, and therapeutics), energy (batteries and solar cells) and

It encompasses the various preparation methods of polymer nanoparticles, solution self-assembly. It showcases a of polymer nanoparticles in several and nucleotide delivery), biomedicals

environmental (catalysis and water purification).



Readership: Academic researchers, postgraduate students, undergraduate students, in polymers, nanomaterials and nanostructures.

642pp Nov 2023 978-981-126-298-2(Set) **US\$248** £220 978-981-125-916-6(Set)(ebook) US\$397 £350

12

SOLID STATE CHEMISTRY

HIGH-ORDER HARMONIC GENERATION IN SOLIDS

edited by Marcelo Ciappina (Guangdong-Technion Israel Institute of Technology, China) & Paraskevas Tzallas (Institute of Electronic Structure and Laser of the Foundation for Research and Technology-Hellas (IESL-FORTH), Greece)

"High-order harmonic generation in solids has been a very hot topic in strong-field physics because of its attractive applications for obtaining high-intensity table-top coherent lights and generating intense attosecond pulses. Many important progresses have been achieved both in experiments and theories especially for uncovering the mechanism of high-order harmonic generation from solids in the last decade. This book will give very good summaries and outlooks for this hot topic in time. Graduate students and young scientists can benefit a lot from this important book."

Song-Feng Zhao Professor, Northwest Normal University, China

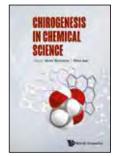
300pp May 2024 978-981-127-955-3 US\$118 £105 978-981-127-956-0(ebook) US\$189 £165

SUPRAMOLECULAR CHEMISTRY

CHIROGENESIS IN CHEMICAL SCIENCE

edited by **Victor Borovkov** (Tallinn University of Technology, Estonia) & **Riina Aav** (Tallinn University of Technology, Estonia)

The book takes readers inside the world of chirality and chirogenesis. Chirality is a fundamental property of the universe and has significance in different organic/inorganic materials, living organisms, and human beings.



The basic principle of chirality is existence of an object in two mirror image forms, which are not superimposable. Understanding the mechanisms and various influencing factors is of particular significance for smart control and further effective application of chirogenesis in chemistry.

Readership: Graduate students and researchers in the fields of stereochemistry and chirality.

520pp Jan 2023 978-981-125-921-0 US\$158 £140 978-981-125-922-7(ebook) US\$253 £220

SOLUTIONS AND X-RAY NON-3D PHASE STRUCTURE ANALYSIS OF SOFT MATTER

by Kazuchika Ohta (Shinshu University, Japan)

"I believe it is only Professor Ohta in the world who can provide correct answers for these exercises. This requires methods developed by him. In particular, the 'Golden Rules' and 'Reciprocal Lattice Method' introduced in Chapter 3 are substantially his original and



useful for the structural analyses of all the molecular assemblies having two-dimensional and/or one-dimensional lattices not only in liquid crystals but also in all the other materials."

Professor Nagao Kobayashi Shinshu University, Japan

Readership: Graduate students and researchers in physical chemistry, supramolecular chemistry.

240pp Aug 2023 978-981-127-241-7 US\$88 £75 978-981-127-242-4(ebook) US\$141 £125

SURFACE / INTERFACE CHEMISTRY

SCANNING PROBE MICROSCOPY

A Multidisciplinary Research Tool by Jayne C Garno (Louisiana State University, USA), Song Xu (Park Systems Inc., USA) & Jing-Jiang Yu (Hitachi High-Technologies America Inc., USA)

This book provides a comprehensive and high-level guide to the operating principles of a wide array of SPM instruments. While the well-known atomic force microscopy (AFM) is covered in-depth in 9 chapters, modern variants are also introduced, such as chemical force microscopy, magnetic force microscopy, scanning electrochemical microscopy, and near-field scanning optical microscopy, amongst many others, concluding with the futuristic artificial intelligence-driven SPM. The authors explain how the science translates into cutting-edge technology and industrial applications.

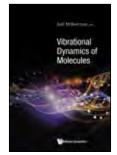
Readership: Researchers, students and lecturers in Surface/Materials/Solid-State Chemistry.

300pp Apr 2024 978-981-126-474-0 US\$108 £95 978-981-126-475-7(ebook) US\$173 £150

VIBRATIONAL DYNAMICS OF MOLECULES

edited by **Joel M Bowman** (Emory University, USA)

"The book is distinguished by bringing together nearly all the leaders of the field of computational vibrational dynamics with detailed descriptions of the methods they have developed. This book is a must for any university or institution undertaking theoretical



or experimental research in chemical physics and related fields such as astrochemistry and optics."

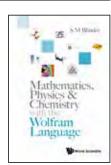
Prof Sir David Clary
University of Oxford

604pp Jul 2022 978-981-123-790-4 US\$178 £140 978-981-123-791-1(ebook) US\$285 £225

MATHEMATICS, PHYSICS & CHEMISTRY WITH THE WOLFRAM LANGUAGE

by **S M Blinder** (University of Michigan, USA & Wolfram Research, USA)

"This book will be of great help for instructors teaching math, physics and chemistry classes... This compute-to-learn approach can be thought of as a form of active learning. In the process, it also provides an intuitive learn-by-example way



of teaching the reader how to use coding in order to solve and provide graphic interpretation for a wide range of mathematical and scientific problems. The fact that the code is provided and explained as an integral part of the text is very helpful and would make it possible for the reader to experiment with altering the code and optimizing it to the reader's needs. I thoroughly enjoyed reading it."

Geva

Professor, University of Michigan, USA

Readership: Researchers, instructors, graduate and undergraduate students

444pp	Mar 2022	
978-981-124-718-7	US\$148	£120
978-981-124-719-4(ebook)	US\$237	£190

FEATURED MAJOR REFERENCE WORKS (MRW)

Series on Chemistry, Energy and the Environment

SYNTHESIS AND APPLICATIONS IN CHEMISTRY AND MATERIALS

(In 4 Volumes)

Volume 1: Metal Coordination and Nanomaterials

Volume 2: Enzymatic and Organic Systems

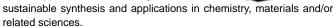
Volume 3: Metal Complex Catalytic Systems and Materials

Volume 4: Biomass and Waste Valorisation, Functional Materials, Energy Conversion and Supercritical Systems

edited by Armando J L Pombeiro (Universidade de Lisboa, Portugal), Kamran T Mahmudov (Universidade de Lisboa, Portugal) & Maria de Fátima Costa Guedes da Silva (Universidade de Lisboa,

Portugal)

The volumes aim to show the strength and international character of the current research in synthetic chemistry that is being developed in Portugal or abroad by teams that cooperate with this country. It gathers representative contributions of main Portuguese research groups and foreign collaborating ones. Nevertheless, the topic should be understood in a wide sense, being open to types of studies with significance on



Readership: Graduate students and researchers in coordination chemistry, nanomaterials, enzymatic and organic systems, metal complex catalytic systems.

1200pp Feb 2024

978-981-127-993-5(Set) U\$\$1100 £970 978-981-127-994-2(Set)(ebook) U\$\$2061 £1815

World Scientific Series in Nanoscience and Nanotechnology - Vol 22

WORLD SCIENTIFIC REFERENCE ON PLASMONIC NANOMATERIALS

Principles, Design and Bio-applications (In 5 Volumes)

Volume 1: Principles of Nanoplasmonics

Volume 2: Plasmonic Nanoparticles: Synthesis and (Bio) functionalization

Volume 3: Self-Assembly of Plasmonic Nanostructures

Volume 4: Nanoparticle-Cell Interactions

Volume 5: Plasmonics in Diagnostics and Therapy edited by Jwa-Min Nam (Seoul National University, Korea), Jianfang Wang (The Chinese University of Hong Kong, China), Zhihong Nie (Fudan University, China), Kimberly Hamad-Schifferli (University of Massachusetts Boston, USA & Massachusetts Institute of Technology, USA) & Sebastian Schlücker (University of Duisburg-Essen, Germany)

Editor-in-chief: Luis M Liz-Marzán (CIC biomaGUNE, Spain)

This is a book collection that encompasses multiple aspects of the exciting and timely field of nanoplasmonics, under the coordination of international plasmonic nanomaterials expert, Dr Luis Liz-Marzán. Given the breadth of the materials, phenomena and applications related to plasmonics, this Reference Set offers a collection of chapters within dedicated volumes, focusing on the description of selected phenomena, with an emphasis in



chemistry as an enabling tool for the fabrication of, often sophisticated, plasmonic nanoarchitectures and biomedicine as the target application.

2328pp May 2022 978-981-123-513-9(Set) US\$1950 £1715 978-981-123-514-6(Set)(ebook) US\$3120 £2745 Materials and Energy - Vol 18

HYBRID ORGANIC INORGANIC PEROVSKITES

Physical Properties and Applications (In 4 Volumes)

Volume 1: Hybrid Organic Inorganic Perovskites: Physical Properties Volume 2: Hybrid Organic Inorganic Perovskites: Optical Properties Volume 3: Spin Response of Hybrid Organic Inorganic Perovskites



Volume 4: Hybrid Organic Inorganic Perovskite Applications edited by Zeev Valy Vardeny (University of Utah, USA), Matt C Beard (National Renewable Energy Laboratory, USA) Editors-in-chief: Zeev Valy Vardeny (University of Utah, USA) & Matt C Beard (National Renewable Energy Laboratory, USA)

This handbook gives an overview of hybrid organic inorganic perovskites, both two dimensional (2D) and three dimensional (3D), from synthesis and characterization and simulation to optoelectronic devices, spintronics devices and catalysis application.

Volume 1: Material physical properties-structure, deposition characteristic and the structure of the electronic bands.

Volume 2: Hybrid perovskite optical properties- ultrafast optical response, photoluminescence and laser action.

Volume 3: Spin response - application such as spin valves, photogalvanic effect, and magnetic response of light emitting diodes and solar cell devices.

Volume 4: Physics and device properties of the relevant applications - photovoltaic solar cells.

The text contains many high-quality colorful illustrations and examples, as well as thousands of up-to-date references to peer-reviewed articles, reports and further reading.

Readership: Physicists, chemists, materials scientists, advanced graduate students, and professional scientists.

860pp Mar 2022 978-981-124-098-0(Set) US\$880 £705 978-981-124-099-7(Set)(ebook) US\$1408 £1130

Materials and Energy - Vol 12

WORLD SCIENTIFIC HANDBOOK OF ORGANIC OPTOELECTRONIC DEVICES

(Volumes 3 & 4)

Volume 3: OLEDs

Volume 4: Flexible Bioelectronics

edited by **Dongge Ma** (South China University of Technology, China) & **Tae-Woo Lee** (Seoul National University, South Korea) Editor-in-chief: **Franky So** (North Carolina State University, USA)

Organic (opto)electronic materials have received considerable attention due to their applications in perovskite and flexible electronics, OPVs and OLEDs and many others. This book provides a comprehensive coverage of the state-of-the-art in an accessible format. It presents the most widely recognized fundamentals, principles, and mechanisms along with representative examples, key experimental data, and over 200 illustrative figures.



Readership: Advanced graduate students and researchers in polymers, semiconductors and related areas.

1144pp	Jul 2022		
978-981-124-029-4(Set)	US\$890	£785	
978-981-124-030-0(Set)(ebook)	US\$1424	£1255	

World Scientific Series: From Biomaterials Towards Medical Devices - Vol 4 and 5

BIOCHEMICAL SENSORS

(In 2 Volumes)

Fundament and Development Nanomaterial-Based Biosensing and Application

edited by **Huangxian Ju** (Nanjing University, China) & **Jinghong Li** (Tsinghua University, China)

This book covers the full scope of biochemical sensors and offers a survey of the principles,

design and applications of the most popular types of biosensing devices. It is presented in 19 chapters, written by 20 distinguished scientists as well as their co-workers. The topics include the design of signal transducers, signal tags and signal amplification strategies, the structure of biosensing interfaces with new biorecognition elements such as aptamers and DNAzymes, and different newly emerging nanomaterials such as Au nanoclusters, carbon nitride, silicon, upconversion nanoparticles and two-dimensional materials, and the applications in wearable detections, biofuel cells, biomarker analyses, bioimaging, single cell analysis and *in vivo* sensing.

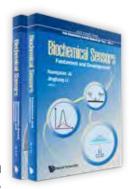
By discussing recent advances, it is hoped this book will bridge the common gap between research literature and standard textbooks. Research into biochemical sensors and their biomedical applications is proceeding in a number of exciting directions, as reflected by the content.

Readership: Scientists and engineers in developing and using biochemical sensors; students studying analytical chemistry, biochemistry, material science, micro- and nanotechnology, biomedicine, and clinical diagnostics.

 1000pp
 Aug 2021

 978-981-123-770-6(Set)
 US\$850
 £750

 978-981-123-771-3(Set)(ebook)
 US\$1360
 £1200



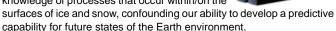
Advances in Atmospheric Chemistry - Vol 3

CHEMISTRY IN THE CRYOSPHERE

(In 2 Parts)

edited by **Paul B Shepson** (Stony Brook University, USA) & **Florent Domine** (University Laval, Canada & CNRS, France)

Climate change is drastically impacting Nature and extent of the cryosphere, with attendant feedbacks on atmospheric composition and climate. These changes are happening at a rate that outpaces the development of fundamental knowledge of processes that occur within/on the



This set, comprising 17 chapters, written by world experts on these topics, intended to document the current state of understanding of the structure, physical properties, abundance, and chemical and microbiological processes that occur within/on ice and snow in all Earth environments in which it exists, and to express needs for improvement of that understanding. This comprehensive treatise/collection that covers environmentally relevant chemistry and related physical aspects of snow and ice in the Earth system, and the connections to climate change, will be accessible to those with introductory college-level understanding of chemistry and physics.

Readership: Undergraduate and graduate students, researchers in environmental chemistry, atmospheric chemistry, environmental science and climate change.

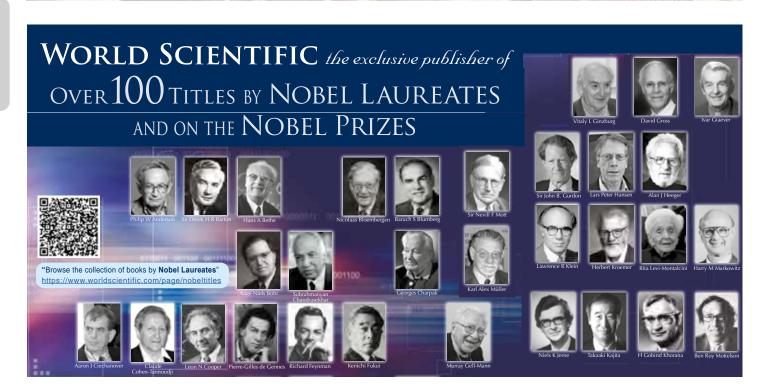
924pp Jan 2022 978-981-123-012-7(Set) US\$298 £260 978-981-123-013-4(Set)(ebook) US\$477 £415

Browse more major reference works (MRW)!

https://tinyurl.com/wsmrw



ADD THESE BOOKS TO YOUR LIBRARY'S COLLECTION RECOMMEND THEM TO YOUR LIBRARIAN TODAY.



JOURNALS

Submit your paper to these journals. Recommend these journals to your librarian!

For a free institutional trial or subscribe to these journals, please contact us at marketing@feelbooks.in

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES (JPP)

https://worldscientific.com/jpp

Impact Factor: 1.5



communications deal with the synthesis, spectroscopy, processing, and applications of these compounds.



JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY (JCBC)

https://worldscientific.com/jcbc

Impact Factor: 2.2

This is an interdisciplinary journal aimed at providing comprehensive coverage on the latest developments and applications of

research in the ever-expanding field of computational biophysics and chemistry.



1600% INCREASE IN DOWNLOADS

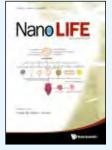
In 2021, researchers downloaded JCRC's Papers 4,911 times. In 2022, this has increased 1,600% to 78,430 times.

NANO LIFE (NL)

https://worldscientific.com/nl

Impact Factor: 0.8

Nano LIFE is a quarterly international journal publishing peer-reviewed research in the broad fields of nanoscience, biomedicine, and environmental health. The journal has been listed in the ISI category of Multidisciplinary Science. Nano LIFE aims to publish highquality papers in frontier research from the



topics: • Tissue engineering and regenerative medicine including medical devices, implants, and wound healing. • Nanomedicine that deals with key issues in medical diagnosis and therapeutics. • Nano-biosensing of all sensitive biological elements • Public health related nanotechnologies to combat virus pandemics • Environmental monitoring of air pollution, water quality, and any atmospheric substances with negative impact on the environment and organism health with the advanced nano technologies.

SPIN (SPIN)

https://worldscientific.com/spin

Impact Factor: 1.8

Spin electronics encompasses a multidisciplinary research effort involving magnetism, semiconductor electronics, materials science, chemistry, and biology. The journal aims to provide a forum for the presentation of research and review articles of interest to all researchers in the field.



MOLECULAR FRONTIERS JOURNAL (MFJ)

https://worldscientific.com/mfj

The Molecular Frontiers Journal fosters exploration and discovery, helping to realize science's promise. By connecting scientists from a multitude of disciplines around matters of global significance, MFJ serves to encourage new perspectives on scientific quandaries that can lead to innovative breakthroughs.

represents expertise from a wide range of scientific disciplines.

Its Scientific Advisory Board, including many Nobel Prize laureates,



NANO (NANO)

https://worldscientific.com/nano

Impact Factor: 1.2

NANO is an international peer-reviewed monthly journal for nanoscience and nanotechnology that presents forefront fundamental research and new emerging topics. The journal features timely scientific reports of new results and technical breakthroughs and also contains interesting review articles about recent hot issues.



NEAR 30% INCREASE IN READERSHIP

In 2020, researchers viewed NANO's anstracts and downloaded its papers 179,523 times In 2021, this jumped to 232,789 times

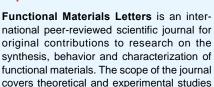
GET READ. SUBMIT YOUR NEXT PAPER TO NANO

FUNCTIONAL MATERIALS LETTERS (FML)

https://worldscientific.com/fml

Impact Factor: 1.3

Functional Materials Letters is an international peer-reviewed scientific journal for original contributions to research on the synthesis, behavior and characterization of functional materials. The scope of the journal



of functional materials, characterization and new applications-related research on functional materials in macro-, micro- and nano-scale science and engineering. Among the topics covered are ferroelectric, multiferroic, ferromagnetic, magneto-optical, optoelectric, thermoelectric, energy conversion and energy storage, sustainable energy and shape memory materials.



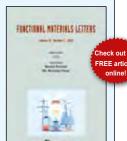
SURFACE REVIEW AND LETTER (SRL)

https://worldscientific.com/srl

Impact Factor: 1.1

This international journal is devoted to the elucidation of properties and processes that occur at the boundaries of materials. The scope of the journal covers a broad range of topics in experimental and theoretical studies of surfaces and interfaces. Both the

physical and chemical properties are covered. The journal also places emphasis on emerging areas of cross-disciplinary research where new phenomena occur due to the presence of a surface or an interface.













WORLD SCIENTIFIC'S SCIENCE WRITING AND PROFESSIONAL DEVELOPMENT GUIDES

Whether you are writing your first paper or applying for grants, World Scientific is here to support you at every stage of your career.

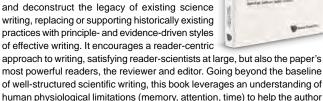
Scientific

Writing 3.0

Scientific Writing 3.0

A Reader and Writer's Guide by Jean-Luc Lebrun & Justin Lebrun (Scientific Reach, USA)

The third edition of this book aims to equip both young and experienced researchers with all the tools and strategy they will need for their papers to not just be accepted, but stand out in the crowded field of academic publishing. It seeks to question and deconstruct the legacy of existing science writing, replacing or supporting historically existing practices with principle- and evidence-driven styles of effective writing. It encourages a reader-centric



316pp	Oct 2021	
978-981-122-883-4	US\$98	£85
978-981-122-953-4(pbk)	US\$35	£30
978-981-122-885-8(ebook)	US\$28	£25

craft a document that is optimized for readability.

Science Research Writing 2nd Edition

by **Hilary Glasman-Deal** (Imperial College London, UK)

Science Research Writing uses a reverseengineering approach to writing developed from extensive work with STEMM researchers at Imperial College London. This approach unpacks current models of STEMM research writing and helps writers to generate the writing tools needed to operate those models effectively in their own field. The reverseengineering approach also ensures that writers

ne els els e-rs e alongside the coming changes

Science

Writing

Research

develop future-proof strategies that will evolve alongside the coming changes in research communication platforms.

The Second Edition has been extensively revised and updated to represent current practice and focuses on the writing needs of both early-stage doctoral STEMM researchers and experienced professional researchers at the highest level, whether or not they are native speakers of English.

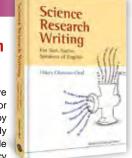
384pp	Nov 2020	
978-1-78634-783-1	US\$68	£60
978-1-78634-784-8(pbk)	US\$25	£20
978-1-78634-834-0(ebook)	US\$20	£20

OVER 45,000 COPIES SOLD WORLDWIDE

Science Research Writing for Non-Native Speakers of English

by **Hilary Glasman-Deal** (Imperial College London, UK)

This book is designed to enable non-native English speakers to write science research for publication in English. It can also be used by English speakers and is a practical, user-friendly book intended as a fast, do-it-yourself guide for those whose English language proficiency



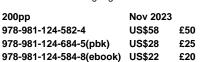
is above intermediate. The approach is based on material developed from teaching graduate students at Imperial College London and has been extensively piloted. The book guides the reader through the process of writing science research and will also help with writing a Master's or Doctoral thesis in English.

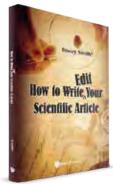
272pp	Dec 2009	
978-1-84816-309-6	US\$58	£48
978-1-84816-310-2(pbk)	US\$25	£21
978-1-84816-720-9(ebook)	US\$20	£17

How to Write Edit Your Scientific Article

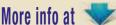
by **Stacey Smith?** (The University of Ottawa, Canada)

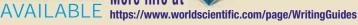
This book will go through the detailed process of assembling an article, from first drafts to writing abstracts to revision to responding to reviewers, illustrated with multiple versions of worked examples as well as what not to do. It gives a step-by-step guide to the self-editing process. The book is based on a workshop given in multiple countries, many of them with an audience for whom English was not their first language.











E-BOOK COLLECTION

FOOD SECURITY AND SUSTAINABLE AGRICULTURE









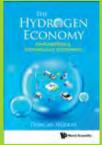


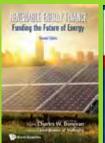


Special E-book Package
US\$6,945 / £5,985
Original List Price: US\$11,378/£9,800

Food Security | Sustainable Agriculture Improved Nutrition | Food Safety Food Integrity Agroecosystem Food Supply Chains | Food Shortage Rural Development

CLEAN ENERGY

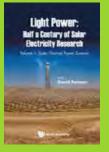












Special E-book Package
US\$9,200 / £7,950
Original List Price: US\$18,784 / £16,365

Sustainable Energy | Renewable Energy
Hydrogen Energy | Green Energy
Alternate Fuels Energy Storage
Energy Conversion | Solar Cells
Photovoltaics | Energy Economics

Visit the website for more info

https://tinyurl.com/ebkcleanfoodagri





For orders and enquiries, please contact us:



FEELBOOKS PVT. LTD.

4381/4 Ansari Road, Daryaganj, New Delhi 110002 Tel: +91-11-47472630, Email: orders@feelbooks.in

BENGALURU • MUMBAI • CHENNAI • KOLKATA • HYDERABAD

For Catalogues & title lists: marketing@feelbooks.in

17

TITLE INDEX



Tick the titles and email to **marketing@feelbooks.in** to recommend to your librarian.

~	Title	Page
	10 THINGS YOU MUST KNOW ABOUT THE INTERNATIONAL CHEMISTRY OLYMPIAD (ICHO): A GUIDE TO THE ICHO COMPETITION (REVISED EDITION)	8
	APPLICATIONS OF X-RAY PHOTOELECTRON SPECTROSCOPY TO CATALYTIC STUDIES: FROM ROUTINE ANALYSIS TO CUTTING-EDGE SURFACE CHARACTERIZATION	5
	AQUEOUS ZINC BATTERIES	6
	BANDWIDTH: HOW MATHEMATICS, PHYSICS, AND CHEMISTRY CONSTRAIN SOCIETY	8
	BIOCHEMICAL SENSORS (IN 2 VOLUMES)	14
	CHEMISTRY OF CAROTENOID RADICALS AND COMPLEXES	11
	CHEMISTRY IN THE CRYOSPHERE (IN 2 PARTS)	14
	CHIROGENESIS IN CHEMICAL SCIENCE	12
	CHROMATOGRAPHIC AND RELATED SEPARATION TECHNIQUES IN FOOD INTEGRITY AND AUTHENTICITY (A 2-VOLUME SET)	4
	CO REMOVAL CATALYSTS AND CO TOLERANT MATERIALS IN FUEL CELL SYSTEMS	5
	COMPLETE GUIDE TO THE FRAGMENT MOLECULAR ORBITAL METHOD IN GAMESS: FROM ONE ATOM TO A MILLION, AT YOUR SERVICE	6
	COPPER BIOINORGANIC CHEMISTRY: FROM HEALTH TO BIOINSPIRED CATALYSIS	4
	DIETARY SUPPLEMENT TEST METHODS: LIQUID CHROMATOGRAPHY SEPARATION TECHNIQUES AND APPLICATION	4
	ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY & RELATED TECHNIQUES: FROM BASICS TO ADVANCED APPLICATIONS	6
	ELECTROCHEMISTRY OF METALLOPORPHYRINS	6
	FRONTIERS IN BORON-BASED MEDICINAL CHEMISTRY	9
	GRAPHENE COMPOSITE MATERIALS	10
	GREEN CHEMISTRY AVANT LA LETTRE: PINE INSTITUTE AND RESIN CHEMISTRY IN AQUITAINE (1900-1970)	7
	HANDBOOK OF SCIENTIFIC TABLES	7
	HIGH-ORDER HARMONIC GENERATION IN SOLIDS	12
	HYBRID ORGANIC INORGANIC PEROVSKITES: PHYSICAL PROPERTIES AND APPLICATIONS (IN 4 VOLUMES)	13
	HYDROGEN ECONOMY, THE: FUNDAMENTALS, TECHNOLOGY, ECONOMICS	9
	INTRODUCTION TO EMERGING FIELDS IN MATERIALS SUSTAINABILITY	7
	INTRODUCTION TO HETEROGENEOUS CATALYSIS (SECOND EDITION)	5
	INTRODUCTION TO ORGANOFLUORINE CHEMISTRY	10
	INTRODUCTION TO PLASMONICS, AN	10
	INTRODUCTION TO TIME-DEPENDENT QUANTUM MECHANICS WITH PYTHON	11
	JOINING THE DARK SIDE: THE ROLE OF THE FORENSIC SCIENCE DEFENCE EXPERT	8
	LANTHANIDES AND ACTINIDES, THE: SYNTHESIS, REACTIVITY, PROPERTIES AND APPLICATIONS	9
	MAKING AND BREAKING SYMMETRY IN CHEMISTRY: SYNTHESES, MECHANISMS AND MOLECULAR REARRANGEMENTS	9

V	Title	Page
	MATHEMATICS, PHYSICS & CHEMISTRY WITH THE WOLFRAM LANGUAGE	12
	MECHANISMS IN HETEROGENEOUS CATALYSIS	5
	METAL HALIDE PEROVSKITES: SYNTHESIS, PROPERTIES AND APPLICATIONS	10
	MODERN DEVELOPMENTS IN CATALYSIS, VOLUME 2	5
	MODERN SUSTAINABLE TECHNIQUES IN TOTAL SYNTHESIS OF BIOACTIVE NATURAL PRODUCTS	10
	NOBEL LECTURES IN CHEMISTRY (2011-2015)	7
	NOBEL LECTURES IN CHEMISTRY (2016-2020)	7
	NOBLE-METAL-FREE ELECTROCATALYSTS FOR HYDROGEN ENERGY	6
	NOVEL POLYMERIC MATERIALS FOR ENVIRONMENTAL APPLICATIONS	11
	O MG! HOW CHEMISTRY CAME TO BE	8
	POLYMERS AT NANOSCALE (IN 2 VOLUMES)	11
	PROBLEMS OF INSTRUMENTAL ANALYTICAL CHEMISTRY: A HANDS-ON GUIDE (SECOND EDITION)	4
	PROGRESS IN LAYERED DOUBLE HYDROXIDES: FROM SYNTHESIS TO NEW APPLICATIONS	9
	PYROLYSIS-GAS CHROMATOGRAPHY/MASS SPECTROMETRY OF POLYMERIC MATERIALS (SECOND EDITION)	4
	RAMAN SPECTROSCOPY IN HUMAN HEALTH AND BIOMEDICINE	4
	SCANNING PROBE MICROSCOPY: A MULTIDISCIPLINARY RESEARCH TOOL	12
	SCHRODINGER IN OXFORD	8
	SEMICLASSICAL MOLECULAR DYNAMICS SIMULATION METHOD	6
	SOLUTIONS AND X-RAY NON-3D PHASE STRUCTURE ANALYSIS OF SOFT MATTER	12
	SUSTAINABLE DEVELOPMENT - THE ROLES OF CARBON AND BIO-CARBON: AN INTRODUCTION TO MOLECULAR SCIENCES	7
	SYNTHESIS AND APPLICATIONS IN CHEMISTRY AND MATERIALS (IN 4 VOLUMES)	13
	TERAHERTZ LIQUID PHOTONICS	11
	TOPICS IN ENANTIOSELECTIVE CATALYSIS: RECENT ACHIEVEMENTS AND FUTURE CHALLENGES	5
	UNDERSTANDING ADVANCED CHEMISTRY THROUGH PROBLEM SOLVING: THE LEARNER'S APPROACH	11
	UNIFORM SUPERSONIC FLOWS IN CHEMICAL PHYSICS: CHEMISTRY CLOSE TO ABSOLUTE ZERO STUDIED USING THE CRESU METHOD	11
	VALLEYTRONICS IN 2D MATERIALS	10
	VIBRATIONAL DYNAMICS OF MOLECULES	12
	VISIONS OF LINUS PAULING	8
	WASTE HEAT RECOVERY: PRINCIPLES AND INDUSTRIAL APPLICATIONS	9
	WORLD SCIENTIFIC HANDBOOK OF ORGANIC OPTOELECTRONIC DEVICES (VOLUMES 3 & 4)	13
	WORLD SCIENTIFIC REFERENCE ON PLASMONIC NANOMATERIALS: PRINCIPLES, DESIGN AND BIO-APPLICATIONS (IN 5 VOLUMES)	13

Author Index

Author	Page
Aav, Riina	12
Andrade-garda, Jose Manuel	4
Beard, Matthew C	13
Bernstein, Elliot R	11
Bhattacharya, Atanu	11
Blinder, S M	12
Borovkov, Victor	12
Bowman, Joel M	12
Bryche, Jean-francois	10
Campmajo, Guillem	4
Canosa, Andre	11
Catlow, Richard C A	5
Chan, Kim Seng	11
Chang, I-jy	8
Chen, Yubin	10
Ciappina, Marcelo	12
Clary, David Charles	8
Cohen, Stephen M	8
Costantino, Umberto	9
Das, Paramita	11
Das, Subhasis	11
Davidson, Matthew G	5
De Oliveira Pombeiro, Armando Jose Latourrette	13
Domine, Florent	14
E, Yiwen	11

Author	Page
Elsheimer, Seth	10
Fan, Hongjin	6
Fedorov, Dmitri G	6
Focsan, Alexandrina Ligia	11
Fung, Fun Man	8
Gao, Qingsheng	6
Garno, Jayne C	12
Goh, Kuan Eng Johnson	10
Goodall, Josie	5
Guedes Da Silva, M Fatima	13
Hamad-schifferli, Kimberly	13
Hardacre, Christopher	5
He, Jie	11
Heard, Dwayne E	11
Hutchings, Graham J	5
Ji, David Dajing	4
Ju, Huangxian	14
Kadish, Karl M	6
Kikuchi, Ryuji	5
Kispert, Lowell D	11
Krasnodebski, Marcin	7
Kusch, Peter	4
Lee, Taewoo	13
Li, Jinghong	14
Li, Xiang	5

Addioi	I age
Liddle, Stephen T	9
Lidin, Sven	7
Liz-marzan, Luis M	13
Ma, Dongge	13
Mahmudov, Kamaran	13
Majhi, Sasadhar	10
Mandal, Bhubaneswar	10
Marinetti, Angela	5
Mcglinchey, Michael James	9
Mills, David P	9
Mitchell, Chris	5
Mulholland, Adrian	5
Nakamura, Hiroki	6
Nam, Jwa-min	13
Nanbu, Shinkoh	6
National Astronomical Observatory Of Japan	7
Natrajan, Louise Sarah	9
Nie, Zhihong	13
Nocchetti, Morena	9
Nunez, Oscar	4
Ohta, Kazuchika	12
Osterloh, W Ryan	6
Ozaki, Yukihiro	4
Pang, Qi	10
Pathak, Pankaj	7

	Page	Author	Page
hen T	9	Peter, Laurence M	6
	7	Petersen, Christoffer Eric	8
Luis M	13	Pluchery, Olivier	10
	13	Popp, Juergen	4
Kamaran	13	Prins, Roel	5
dhar	10	Ramakrishna, Seeram	7
ıbaneswar	10	Rangaiah, Gade Pandu	9
igela	5	Reddy, Chirla Chandra	9
Michael James	9	Sekhara	
P	9	Reglier, Marius	4
ris	5	Rowe, Bertrand R	11
Adrian	5	Sapountzi, Foteini	5
Hiroki	6	Sato, Hidetoshi	4
nin	13	Scheeline, Alexander	8
koh	6	Schlucker, Sebastian	13
ronomical Of Japan	7	Schudel, David	8
uise Sarah	9	Seddon, Duncan	9
1	13	Sharma, Susmita	7
lorena	9	Shepson, Paul	14
ar	4	Simaan, Jalila	4
hika	12	So, Franky	13
Ryan	6	Sullivan, Darryl	4
iro	4	Tada, Shohei	5
	10	Tamil Selvan, Ramadoss	7
kaj	7	Tan, Jeanne	11

Author	Page
Tcypkin, Anton	11
Teranishi, Yoshiaki	6
Turner, Nicholas J	5
Tzallas, Paraskevas	12
Van Caemelbecke, Eric	6
Van Santen, Rutger A	5
Vardeny, Zeev Valy	13
Vogel, Pierre	7
Wang, Anjie	5
Wang, Jianfang	13
Wang, Tong	10
Wang, Xin	11
Williams, Charlotte	5
Wong, Calvin Pei Yu	10
Wood, Bayden R	4
Xia, Zhiguo	10
Xu, Song	12
Yang, Cheng	10
Yang, Lichun	6
Yu, Jing-jiang	12
Zafeiratos, Spyridon	5
Zhang, Jin Zhong	10
Zhang, Liangliang	11
Zhang, Xi-cheng	11
Zhu, Yinghuai	9





Chemistry/Materials Science/ Nanotechnology E-Book Collection

At World Scientific we offer flexible purchasing models to help meet our customers' needs. You can purchase our Chemistry/Materials Science/Nanotechnology books in a subject collection or, if you prefer, use our Pick and Choose option. Our Chemistry/Materials Science/Nanotechnology collection is just one part of our full e-books list – a list which now stands at over 10,000 titles!

Purchase Options

Collection	List Price (US\$)	List Price (GBP)	Discounted Price	Pick and Choose	Discount
2023	9,000	8,000	Contact us for a quote	US\$2,000-US\$10,000	10% discount
1981–2022	204,000	171,000		>US\$10,000	15% discount

Why purchase our Chemistry/ Materials Science/ Nanotechnology Collection?

- Content written by prominent Chemistry/ Materials Science/Nanotechnology experts such as Nobel Laureates & Wolf Prize-winners
- A great resource of monographs, review papers and conference proceedings
- A wide range of topics covering all aspects of Chemistry/Materials Science/Nanotechnology
- Generous discounts when buying a collection
- Indexed in Primo Central Index, EBSCO Discovery Services, WorldCat/OCLC, CNKI
- ♦ Electronic archiving with Portico

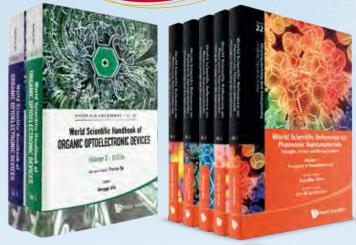
Main features of our E-Books:

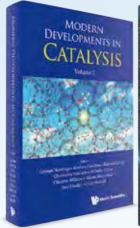
- Perpetual access model
- No minimum purchase required
- ◆ DRM-free content
- ◆ 24 x 7 access for unlimited concurrent users

In addition, your library will enjoy

- ◆ A fully integrated platform to search across e-journals, e-archives and e-books
- ◆ MARC records for easy integration to OPAC
- ◆ Counter-compliant usage statistics
- No hosting fees











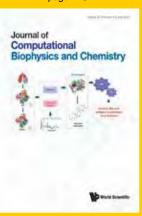
WORLD SCIENTIFIC JOURNALS AT

https://www.worldscientific.com/page/wsjournals

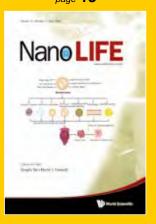
page 15



page 15



nage 15



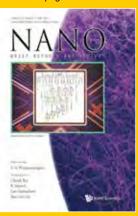
page 15



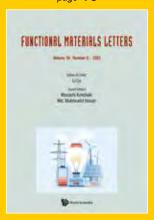
page **15**



page 15



page 15



page 15



Chemistry Digital Annual Catalogue

https://www.worldscientific.com/page/chemistry-annual-catalogue



Chemistry e-Catalogues

https://www.worldscientific.com/page/ecatalogues/chemistry



For orders and enquiries, please contact us:



FEELBOOKS PVT. LTD.

www.feelbooks.in

DELHI

4381/4 Ansari Road, Daryaganj, New Delhi 110002

Tel: +91-11-47472630 Email: orders@feelbooks.in

BENGALURU C-22, Brigade MM, KR Road, Jayanagar 7th Block, Bengaluru 560070

Tel: +91-80-26762129 Email: bangalore@feelbooks.in

MUMBAI ♦ CHENNAI ♦ KOLKATA ♦ HYDERABAD

For Catalogues & title lists: marketing@feelbooks.in