

JAN-APR 2026

# Chemistry, Material, Life & Earth Sciences



WILEY



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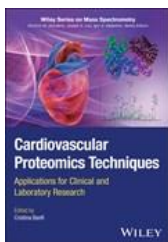
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### Cardiovascular Proteomics Techniques: Applications for Clinical and Laboratory Research

Cristina Banfi, Dominic M. Desiderio, Joseph A. Loo

**Definitive reference on studying proteome biomarkers through cardiovascular disease pathophysiology and applied mass spectrometry**

*Cardiovascular Proteomics Techniques* explores the intersection of cardiovascular disease pathophysiology and applied mass spectrometry to study proteome biomarkers. Leading experts provide a comprehensive overview of the physiopathology of cardiovascular system diseases, along with insights into their etiology and pathogenesis through proteomics. The book features thirty chapters covering a range of topics, including mass

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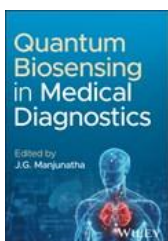
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### Live Biological Imaging Across Scales

Stefan Linder, Claire Wells

**Comprehensive reference exploring microscopy techniques to support the study of living systems with a unique multiscale focus**

*Live Biological Imaging Across Scales* presents an overview of the technologies and experimental strategies available for live imaging across scales. Each chapter highlights a different technique, working upwards from small to large scale. Readers will find critical evaluation of these techniques and perspectives on future developments in this evolving field, enabling them to effectively identify techniques that may benefit their research activities.



### Quantum Biosensing in Medical Diagnostics

Jamballi G. Manjunatha

**Presents cutting-edge insights into quantum biosensors for disease detection and medical diagnostics**

The rapid evolution of biosensing technologies has transformed the field of medical diagnostics. By enabling the identification of biological events at the scale of single molecules or ions, quantum biosensors hold the potential to revolutionize early detection, guide personalized treatment strategies, and offer fresh mechanistic insights into disease pathways.

*Quantum Biosensing in Medical Diagnostics* explores how quantum mechanics is being harnessed to achieve

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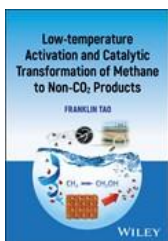
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T. D. H. Bugg

**A comprehensive, up-to-date discussion of what enzymes are, how they work, and how they catalyse enzymatic reactions**

Enzymes are giant macromolecules which catalyse all the biochemical reactions in living cells. Their three-dimensional structures are highly complex, yet they are formed by spontaneous folding of a linear polypeptide chain. Their catalytic properties are even more impressive than synthetic catalysts which operate under more extreme conditions. Enzyme-catalysed reactions proceed very high enantioselectivity and enantiospecificity at rates



### Low-temperature Activation and Catalytic Transformation of Methane to Non-CO2 Products

Franklin Tao

**Sustainably tap one of the world's most abundant natural resources with this essential guide**

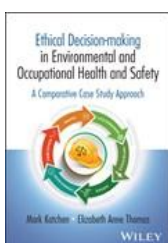
Methane is among our crucial natural resources, with myriad applications both domestic and industrial. Atmospheric accumulation of methane, however, is one of the major drivers of climate change. The increasingly urgent search for a sustainable world demands methods for the transformation of methane that maximize its potential as a source of energy and chemical production without a harmful effect on the atmosphere and local

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### Chiral Heterogeneous Catalytic Systems Based on Metal-Organic Frameworks

Kayhaneh Berijani



### Ethical Decision-making in Environmental and Occupational Health and Safety: A Comparative Case Study Approach

Mark Katchen, Elizabeth Anne Thomas

**Equips practitioners to solve real-world ethical challenges and strengthen their ethical reasoning skills across OEHS**

*Ethical Decision-making in Environmental and Occupational Health and Safety* offers a comprehensive and practical guide to ethics in the environmental and occupational health and safety (EOHS) professions. By comparing professional codes of ethics across disciplines and integrating a structured decision-making algorithm, it equips readers with the tools to navigate complex ethical



### Quick Selection Guide to Chemical Protective Clothing (8th Edition)

Krister Forsberg, Ann Van den Borre, James P. Zeigler

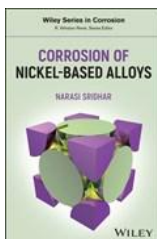
**Recognized as the most useful published source of information for selection and use of chemical protective clothing**

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*The Quick Selection Guide to Chemical Protective Clothing* provides the most efficient tool for selecting appropriate

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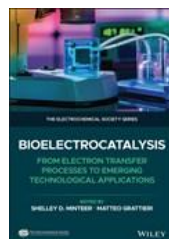


## Corrosion of Nickel-Based Alloys

Narasi Sridhar

The objective of this book is to serve as a comprehensive source of information on the history, metallurgy, and corrosion behavior of Nickel-based alloys. In this regard, the author hopes to combine fundamental knowledge of the metallurgy, chemistry, and electrochemistry relevant to these alloys with practical applications of these alloys in the corrosion field. The overall theme of the book will be how to use the state-of-the-art knowledge of corrosion mechanisms and metallurgy in selecting and evaluating these alloys. Such an approach, it is hoped, will provide the reader tools to better app...

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Shelley D. Minteer, Matteo Grattieri

**An authoritative resource introducing the fundamentals of enzymatic and microbial electrocatalysis**

In *Bioelectrocatalysis: From Electron Transfer Processes to Emerging Technological Applications*, a team of distinguished researchers delivers an up-to-date discussion of fundamental concepts in bioelectrocatalysis and its applications. The authors offer a comprehensive treatment of the foundations of bioelectrocatalysis. Beginning with a comparison of enzymatic and microbial electrocatalysis, the book goes on to explore the differences between direct

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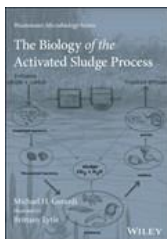
## Nanostructured Materials for Sensing Applications, 2 Volume Set

Ajit Khosla, Tokeer Ahmad, Irshad Ahmad Wani, Stefano Cinti

### *Nanostructured Materials for Sensing Applications*

This book offers a comprehensive exploration of the cutting-edge advancements in nanotechnology-based sensors, covering topics ranging from fundamental principles to practical applications. By providing readers with up-to-date insights, practical guidance, and a multidisciplinary perspective, the book equips researchers, professionals, and students involved with detection of various types of analytes including environmental pollutants, chemical contaminants, food borne pathogens,

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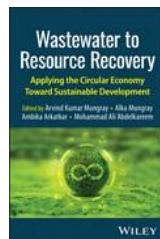
## The Biology of the Activated Sludge Process: A Biological Approach

Michael H. Gerardi

**A practical guide to the activated sludge process serving as a manual for linking operational changes to shifts in microbes and microbial populations**

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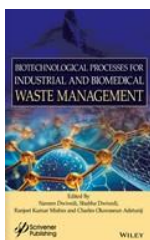
## Wastewater to Resource Recovery: Applying the Circular Economy Toward Sustainable Development

Arvind K. Mungray, Ambika Arkatkar, Alka A. Mungray, Mohammad A. Abdelkareem

**Examines the strategic and economic viability of wastewater treatment processes**

*Wastewater to Resource Recovery* comprehensively explores the economic viability of the processes used for wastewater treatment, discussing strategies, limitations in conventional treatment, recent methods for resource recovery, and relevant analysis of treatment for wastewater management. The book interweaves case studies across chapters showing the centralized and

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Aravin P. Periyasamy

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*Textile Microplastics in the Environment* presents essential information pertaining to microplastics or microfibers derived from textile sources as well as mitigation and reduction strategies that benefit both the public and researchers.

Readers will find information on:

- Origins of textile microplastics, explored from the



## Hazards and Treatment of Wastewater Contaminants

Dipika Jaspal, Arti Malviya

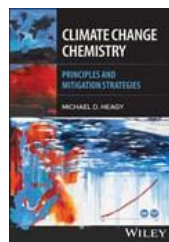
**Overview of the different categories of possible contaminants in wastewater with information on treatment methods for each contaminant**

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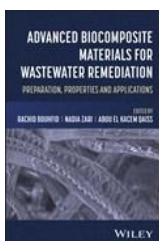


## Climate Change Chemistry: Principles and Mitigation Strategies

Michael D. Heagy

The book would offer a historical basis from acid rain, ozone depletion, to the current increase in CO<sub>2</sub>. By offering this perspective, the book provides chemical solutions to acid rain and ozone depletion. A new approach is proposed other than a straightforward chemical concepts book, but also offer short highlight topics on the politics involved and arguments against these environmental crises. Readers will learn to derive molecular orbitals, gain understanding in group theory, and apply these concepts to reactivity and molecular spectroscopy. The topic allows for continual development

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Rachid Bouhfid, Nadia Zari, Abou el kacem Qaiss

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The growing demand for sustainable, efficient, and cost-effective wastewater treatment solutions underscores the importance of biocomposite materials as a next-generation technology. Derived from renewable resources and enhanced with nanomaterials or functional additives, biocomposites combine biodegradability, affordability, and high performance in removing

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Riza Atav

**Thorough review of the dyeing of cellulose fibers with information on pre- and post-processing and various types of dyes**

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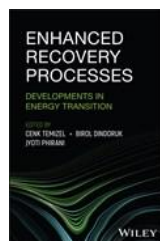
## Biofoundry Techniques for Biotechnology Applications

Anuj Kumar Chandel

**Extensive reference on the integration of biofoundry techniques with lignocellulose biorefinery processes**

*Biofoundry Techniques for Biotechnology Applications* presents concepts, perspectives, and technical advancements on thermochemical and biochemical pathways in biochemical conversion of lignocellulosic feedstock into platform chemicals, specialty chemicals/fuels, and materials. It covers a broad range of topics from biomass refining to synthetic biology and process automation, integrating recent advancements in

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Until recently, the field of computational bioinorganics has been governed by the application of quantum mechanical approaches. The emergence of metal-related biomolecular fields and increased computational capabilities have enabled the development of novel artificial metalloenzymes, new metallodrugs strategies, and advanced biosensor technologies.

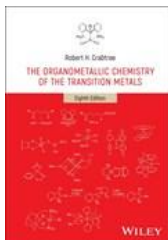
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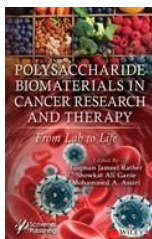
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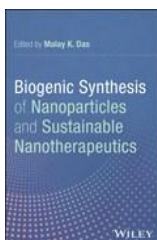
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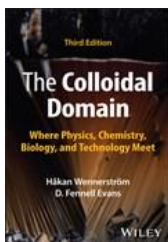
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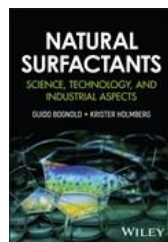


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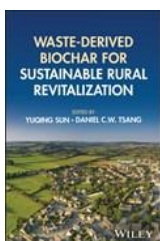
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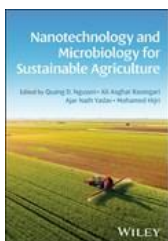
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### Next-Generation Fertilizers for Sustainable Agricultural Practices and Food Security

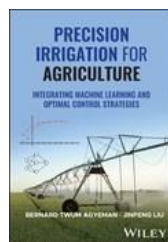
Shah Fahad, Shah Saud, Taufiq Nawaz, Sajid Fiaz, Iqbal Munir

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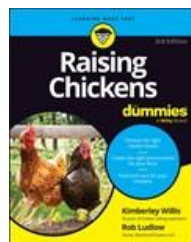
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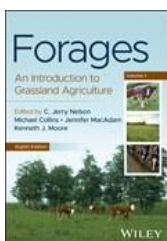
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Kimberley Willis, Robert T. Ludlow

#### Raise healthy and happy chickens

*Raising Chickens For Dummies, 3rd Edition* shows you exactly how to get started on your own or improve the way you already raise your flock. The book gives you down-to-earth and easy-to-implement suggestions for raising healthy chickens in a sustainable and environmentally friendly way.

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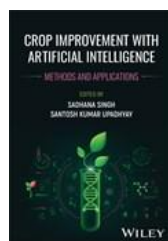
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C. Jerry Nelson, Michael Collins, Jennifer W. MacAdam, Kenneth J. Moore

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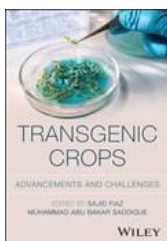
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Sajid Fiaz, Muhammad Abu Bakar Saddique

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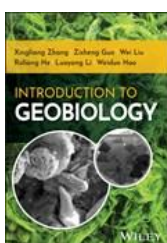
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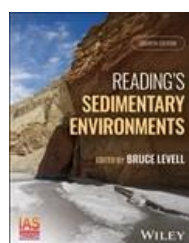
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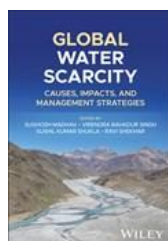
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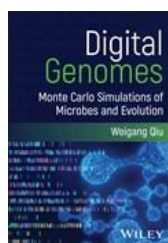
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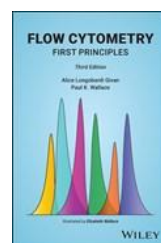
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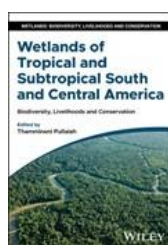
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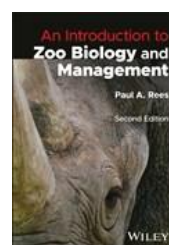
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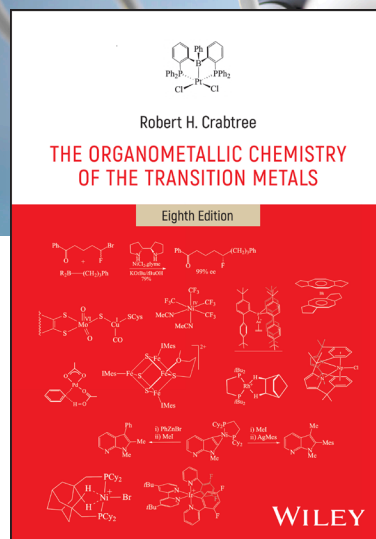
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**Robert H. Crabtree, F.R.S.**, is a Research professor in the Department of Chemistry at Yale University. He has served on the editorial boards of *Chemical Reviews* and *Organometallics* and has received numerous awards for his research accomplishments including the Centenary Prize of the Royal Society of Chemistry (2014) and election to the National Academy of Sciences (2017).



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