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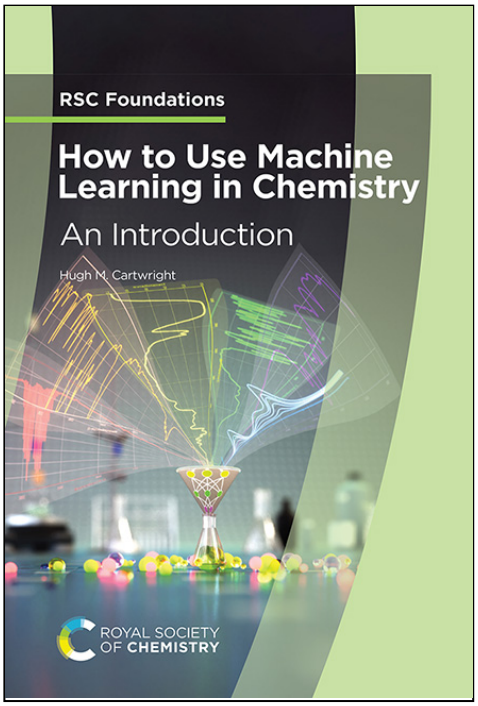

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THEMA:	PNRA, UYQM
BISAC:	SCI013050, COM004000, COM072000
Series:	RSC Foundations Volume 8

How to Use Machine Learning in Chemistry

An Introduction

Hugh M Cartwright Oxford University (retired), UK

Synopsis

Written as a primer for anyone new to the area of machine learning this book provides an overview of the principles that underly its use in science together with how it can be a practical tool in research. Readers will develop an understanding of key terminology in the field and learn about critical factors that must be taken into account if machine learning is to be used successfully in scientific research.

Key Features and Highlights

- Offers a practical and concise starting point for those new to the field
- Provides a broad coverage at an accessible level
- Authored by a well-respected researcher known for their engaging and accessible writing style

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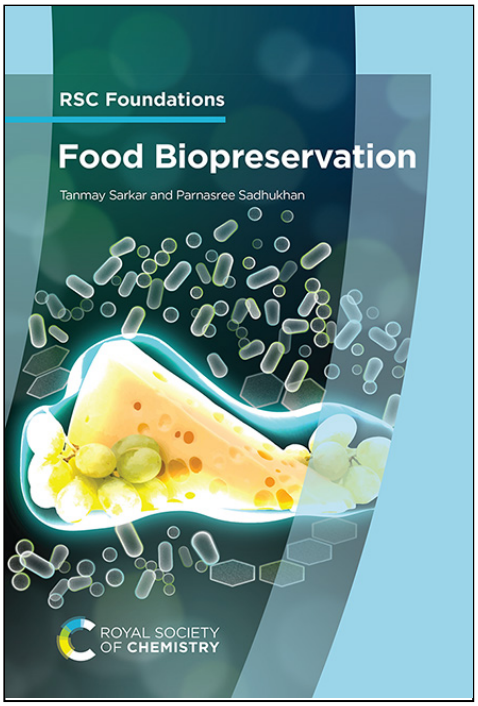

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Price:	£45.00 | $63.00 | €56.25
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Target Audience:	Professional and scholarly
Size:	234 x 156 (Royal 8vo) mm
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THEMA:	TDCT, PND
BISAC:	TEC012000, SCI013000
Series:	RSC Foundations Volume 9

Food Biopreservation

Tanmay Sarkar West Bengal State Council of Technical Education, India
Parnasree Sadhukhan J D Birla Institute, India

Synopsis

This book explores the chemistry and practical application of natural food preservation techniques using biopreservatives sourced from microorganisms, plants and animals. It highlights key bioactive agents and their roles in enhancing food safety, extending shelf life and maintaining quality across diverse food systems. Designed for both academic and industry professionals, the book offers targeted solutions tailored to specific food matrices, including optimal concentration ranges and storage conditions. Backed by current market data indicating growth in the biopreservatives sector, it positions natural preservation as a compelling alternative to chemical additives – one that supports both environmental stewardship and public health.

Key Features and Highlights

- Covers biopreservation across all major food categories (dairy, meat, seafood, fruits/vegetables) with detailed mechanisms of action, specific applications and regulatory frameworks.
- Bridges academic research with commercial implementation by including real-world case studies, regulatory approval status (FDA GRAS, EFSA classifications), acceptable limits for different biopreservatives and detailed tables showing targeted microorganisms and storage conditions.
- Addresses the growing consumer demand for natural preservation methods by covering emerging technologies like nanoencapsulation, synergistic combinations, active packaging innovations and sustainable approaches using food industry by-products.

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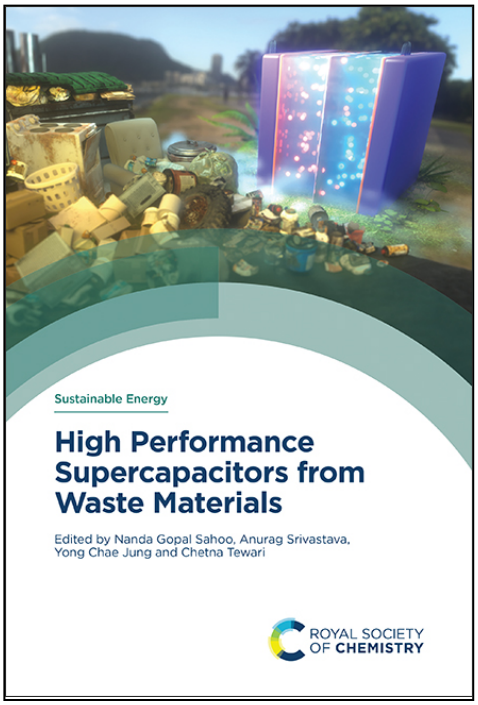

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Publication Date:	14 August 2026
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Size:	234 x 156 (Royal 8vo) mm
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THEMA:	THY, RNH, PNRH, TBN
BISAC:	SCI024000, TEC010020, SCI013100, SCI050000, TEC010000
Series:	Sustainable Energy Volume 7

High Performance Supercapacitors from Waste Materials

Nanda Gopal Sahoo Kumaun University, India
Anurag Srivastava IIITM, India
Yong Chae Jung KIST, Republic of Korea
Chetna Tewari KIST, Republic of Korea

Synopsis

This book delves into the use of processed waste materials as electrode materials for supercapacitor applications, in an intriguing effort towards promotion of environmentally friendly approaches that align with the principles of sustainability and resource utilization. Waste-derived electrodes can offer several advantages, including cost-effectiveness, reduced environmental impact, and the potential for upcycling.

Key Features and Highlights

- The book offers a comprehensive and interdisciplinary exploration of converting diverse waste streams into high-performance supercapacitor materials, integrating electrochemical fundamentals, fabrication techniques, and computational modelling.
- It uniquely combines environmental and economic analyses with advanced materials science, addressing global sustainability goals and circular economy strategies through practical case studies and policy perspectives.
- With contributions from internationally recognized researchers across Asia, Europe, and North America, the volume ensures global relevance and appeal for academics, industry professionals, and policymakers.

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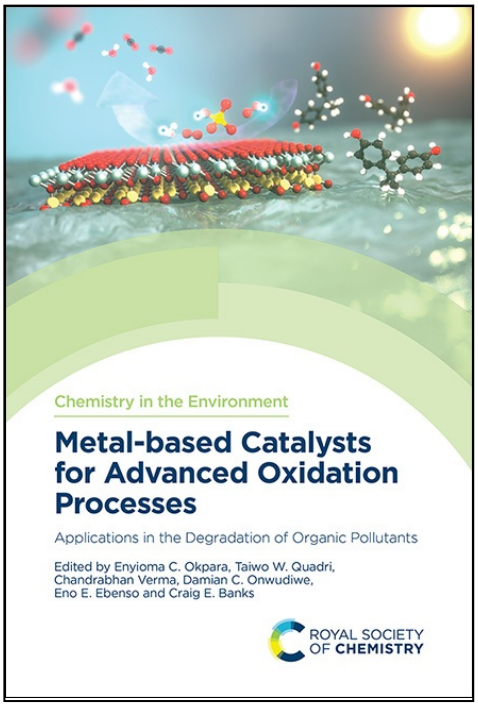

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BIC:	PNRD, TQK, TQ
THEMA:	PNRD, PNC, TQK
BISAC:	SCI013050, TEC010010, TEC010000
Series:	Chemistry in the Environment Volume 19

Metal-based Catalysts for Advanced Oxidation Processes

Applications in the Degradation of Organic Pollutants

Enyioma C Okpara North-West University, South Africa
Taiwo W Quadri University of South Africa, South Africa
Chandrabhan Verma King Fahd University of Petroleum and Minerals, Saudi Arabia
Damian C Onwudiwe North-West University, South Africa
Eno E Ebenso University of South Africa, South Africa
Craig E Banks Manchester Metropolitan University, UK

Synopsis

Advanced oxidation processes (AOPs) are well established as techniques for environmental decontamination. They are particularly key in the treatment of organic pollutants in drinking water and in industrial wastewater. AOPs require the generation of reactive oxygen species, this generation can be facilitated with catalysts. Metal-based heterogeneous catalysts have been extensively investigated for their high catalytic performance in AOPs. This book brings together the application of these catalysts in AOPs for the degradation of persistent organic pollutants in water treatment, looking at both the laboratory and the industrial scale.

Key Features and Highlights

- Looks at applications across both laboratory-scale and industrial-scale
- Explores various classes of catalysts, including metal oxides, metal sulphides, metal polymers and more
- Provides information on both synthesis and mechanisms of pollutant degradation

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Pages:	736
BIC:	PNRH, TGM, TDM, TBN
THEMA:	PNRH, TBN, TGM, TDPM, PDT
BISAC:	SCI050000, TEC021000, TEC023000, TEC027000, SCI013030
Series:	Nanoscience & Nanotechnology Series Volume 75

Magnetoresponsive Soft Nanosystems

Fundamentals and Applications

Sophie Laurent University of Mons, Belgium

Ladislau Vékás Romanian Academy-Timisoara Branch Center for Fundamental and Advanced Technical Research, Romania

Synopsis

This book covers the most recent results in the field of magnetically responsive colloidal nanosystems, with special emphasis on engineering and biocompatible ferrofluids (bio-ferrofluids). It demonstrates the progress in remote controlled nanosystems, particularly in the field of magnetically controllable fluids. Edited by experts in the field, the book is an excellent companion for academics and industry professionals working in magnetic nanoparticles and their applications in soft systems.

Key Features and Highlights

- Explores application-oriented design and synthesis of magnetoresponsive nanosystems, including size-dependent nanoparticle synthesis, multifunctional surface engineering, and colloidal stability in biologically relevant media.
- Presents advanced numerical simulation models alongside cutting-edge magnetic and structural analysis techniques, offering a robust toolkit for researchers.
- Showcases promising and timely applications, highlighting the interdisciplinary impact of magnetic nanomaterials.

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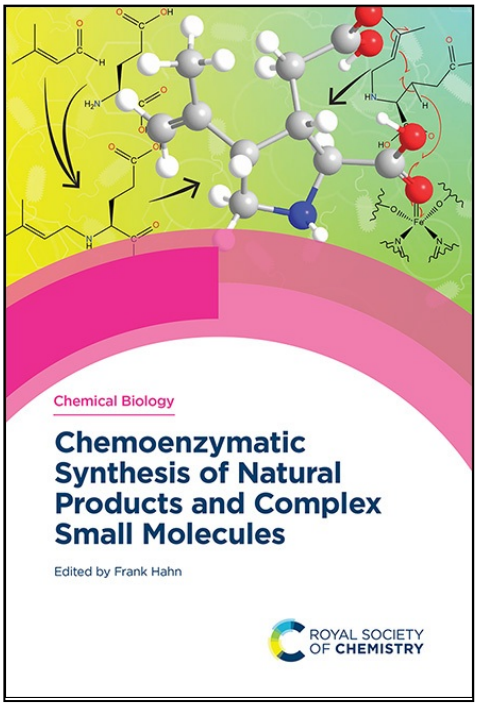

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Pages:	490
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THEMA:	PSB, PSE, PNN
BISAC:	SCI007000, SCI013040
Series:	Chemical Biology Volume 25

Chemoenzymatic Synthesis of Natural Products and Complex Small Molecules

Frank Hahn University of Bayreuth, Germany

Synopsis

Recent developments in biocatalysis have resulted in the application of enzymes for the construction of complex molecules. This dynamically developing field is increasingly becoming a competitive alternative for classical total synthesis. Giving readers an in-depth overview of the current state of the field, this book will be of wide interest to natural products and drug researchers with a chemical or biochemical background and biocatalysis experts in academia and industry.

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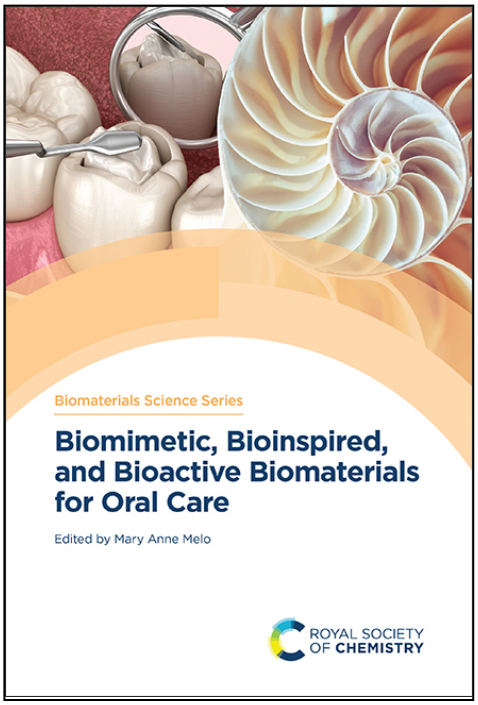

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Size:	234 x 156 (Royal 8vo) mm
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BIC:	TCB, TGB
THEMA:	MKEH, TGML
BISAC:	MED016000, SCI013060
Series:	Biomaterials Science Series Volume 22

Biomimetic, Bioinspired and Bioactive Biomaterials for Oral Care

Mary Anne Melo University of Maryland School of Dentistry, USA

Synopsis

Exploring biomimetic, bioinspired, and bioactive biomaterials in dentistry, the text covers advancements in composites, restorations, tissue engineering and drug delivery. It includes insights from international experts on trends like nanotechnology, 3D printing and personalized dentistry. By bridging science and clinical practice, it equips dental professionals with the knowledge to integrate these materials, improving patient outcomes and advancing dental care.

Key Features and Highlights

- Provides a comprehensive exploration of biomaterials tailored for dental applications, including restorative materials, dental implants, tissue engineering and drug delivery systems.
- Features contributions from internationally renowned experts in the field of dental biomaterials from different countries and affiliations.
- Bridges the gap between scientific knowledge and clinical application by presenting theoretical foundations with practical considerations and real-world applications.

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