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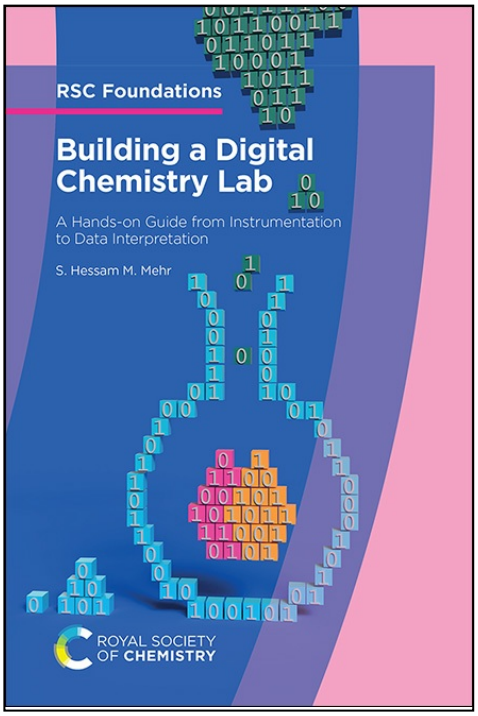


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| **Series:** | RSC Foundations Volume 11 |


# Building a Digital Chemistry Lab

## A Hands-on Guide from Instrumentation to Data Interpretation

**S Hessam M Mehr** University of Glasgow, UK

### Synopsis

Laboratory automation, new sensors and artificial intelligence are set to revolutionise the way we do science. But how can you get started incorporating these technologies into your lab? Offering practical, accessible guidance across a range of relevant topics this book has the answers. Discussing challenges including implementation of custom instrumentation, use of robotics and how to collect and manage data it provides a solid starting point for building your own digital lab.

### Key Features and Highlights

- Focuses on practical challenges including implementing custom instrumentation, use of automation and robotics and collecting and managing data.
- Provides real world examples to illustrate what can be achieved.
- Demonstrates the connection between experimental methodology and machine learning.

### Brief Contents



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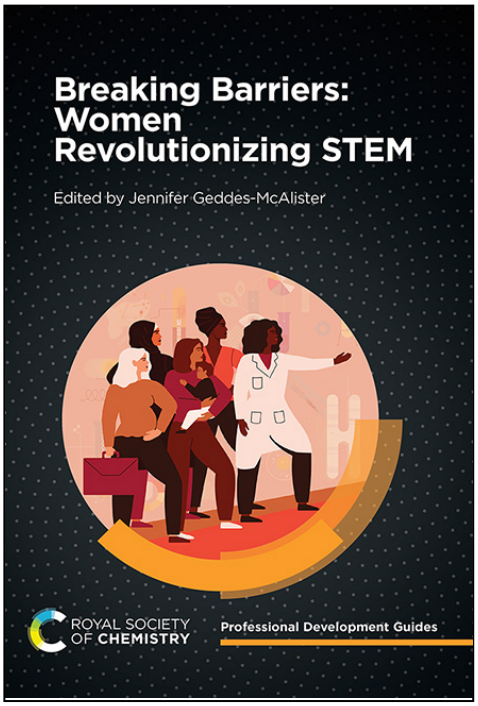


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| **Size:** | 234 x 156 (Royal 8vo) mm |
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| **THEMA:** | KJMV22, VSC, PD, 4CT, 5JA, 5PN |
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| **Series:** | Professional Development Guides Volume 3 |


# Breaking Barriers: Women Revolutionizing STEM


**Jennifer Geddes-McAlister** University of Guelph, Canada


## Synopsis


This empowering book explores the persistent gender gap in STEM, focusing on the unique challenges faced by women—especially mothers—in academia, industry, and government. Through interviews, research, and global case studies, it highlights cultural and structural barriers while offering strategies for success, institutional change, and personal empowerment. Featuring inspiring stories and practical solutions, it's a vital resource for anyone committed to equity in STEM and supporting women, parents, and carers in science and technology careers.


## Brief Contents




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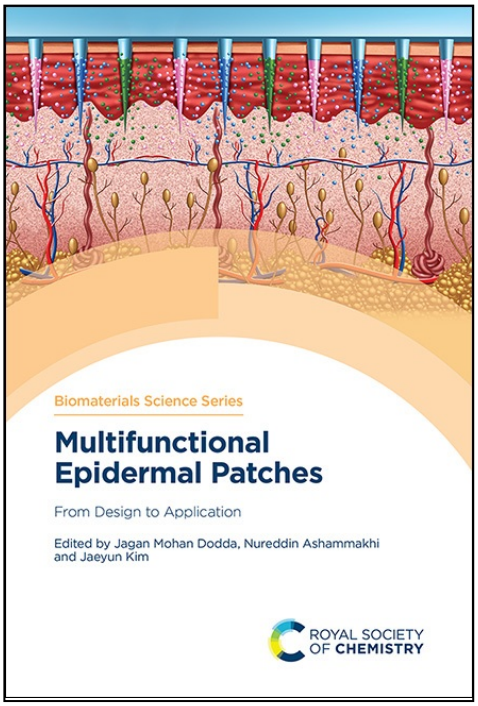


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| **Pages:** | 808 |
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| **BISAC:** | TEC009070, SCI010000, MED108000, TEC059000, TEC009010 |
| **Series:** | Biomaterials Science Series<br>Volume 23 |


# Multifunctional Epidermal Patches

## From Design to Application


**Jagan Mohan Dodda** University of West Bohemia, Czech Republic
**Nureddin Ashammakhi** Michigan State University, USA
**Jaeyun Kim** Sungkyunkwan University, Republic of Korea


### Key Features and Highlights

- Covers fundamentals, structure, synthesis methods, characterizations, physico-chemical and biological properties of skin adhesive patches.
- A comprehensive review of recent accomplishments and key scientific and technological challenges in the field of smart patches.
- An exclusive book providing deep insight into the therapeutic, diagnostic, pharmaceutical and clinical applications of skin adhesive patches.

### Brief Contents



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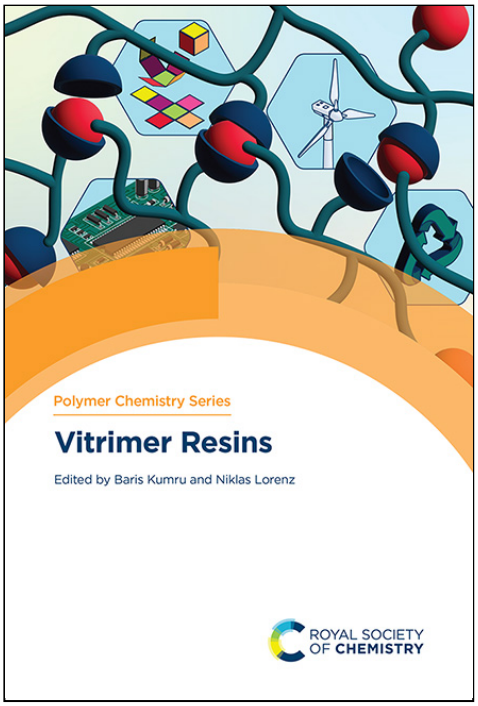


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| **BISAC:** | TEC009070, TEC055000, SCI013040 |
| **Series:** | Polymer Chemistry Series<br>Volume 48 |


## Vitrimer Resins


**Baris Kumru** Delft University of Technology, Netherlands and Vidyasirimedhi Institute of Science and Technology, Thailand

**Niklas Lorenz** Delft University of Technology, The Netherlands


### Synopsis

This authoritative handbook offers a comprehensive overview of vitrimer chemistry, synthesis, characterization, and applications - bridging academic research and industrial practice. Aimed at researchers, engineers, and industry professionals, it offers a useful guide to the development of dynamic polymer materials and their role in a circular economy.

### Key Features and Highlights

- Comprehensive vitrimer based topics from various aspects which are not covered in any other books.
- Introduces engineering and industry perspective on vitrimer systems and highlights the relevance of interdisciplinary to produce industrially relevant systems in near future.
- Establishes structure-property-synthesis-analysis-processing and manufacturing relation for better understanding of vitrimer technology.

### Brief Contents




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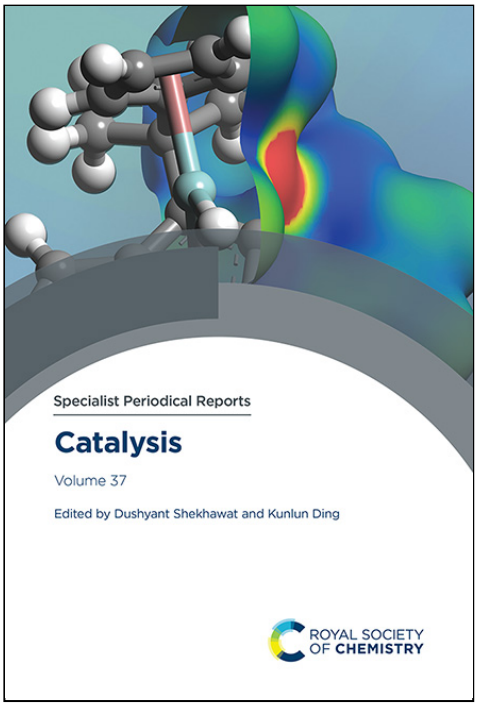


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| **Series:** | Specialist Periodical Reports - Catalysis Volume 37 |

# Catalysis

## Volume 37

**Dushyant Shekhawat** National Energy Technology Laboratory, USA
**Kunlun Ding** Louisiana State University, USA

## Synopsis

This comprehensive edition serves as a vital reference for anyone seeking a succinct overview of current developments and future directions in catalysis. By bridging the gap between fundamental laboratory studies and practical industrial applications, the book provides invaluable insights into how catalytic processes are being leveraged for a more sustainable and efficient future. It is designed to benefit researchers eager to stay at the forefront of this dynamic area, both now and in the years to come.

## Brief Contents

- Single-atom catalysts for selective hydrogenations
- Challenges in polyolefin re/upcycling catalysis specific to polymer feedstock
- Catalytic upcycling of plastic waste under electromagnetic fields
- Plasma catalysis for commodity chemical synthesis: progress, challenges, and future directions
- Non-reductive conversion of $CO_2$ into organic carbonate over ceria-based catalysts
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