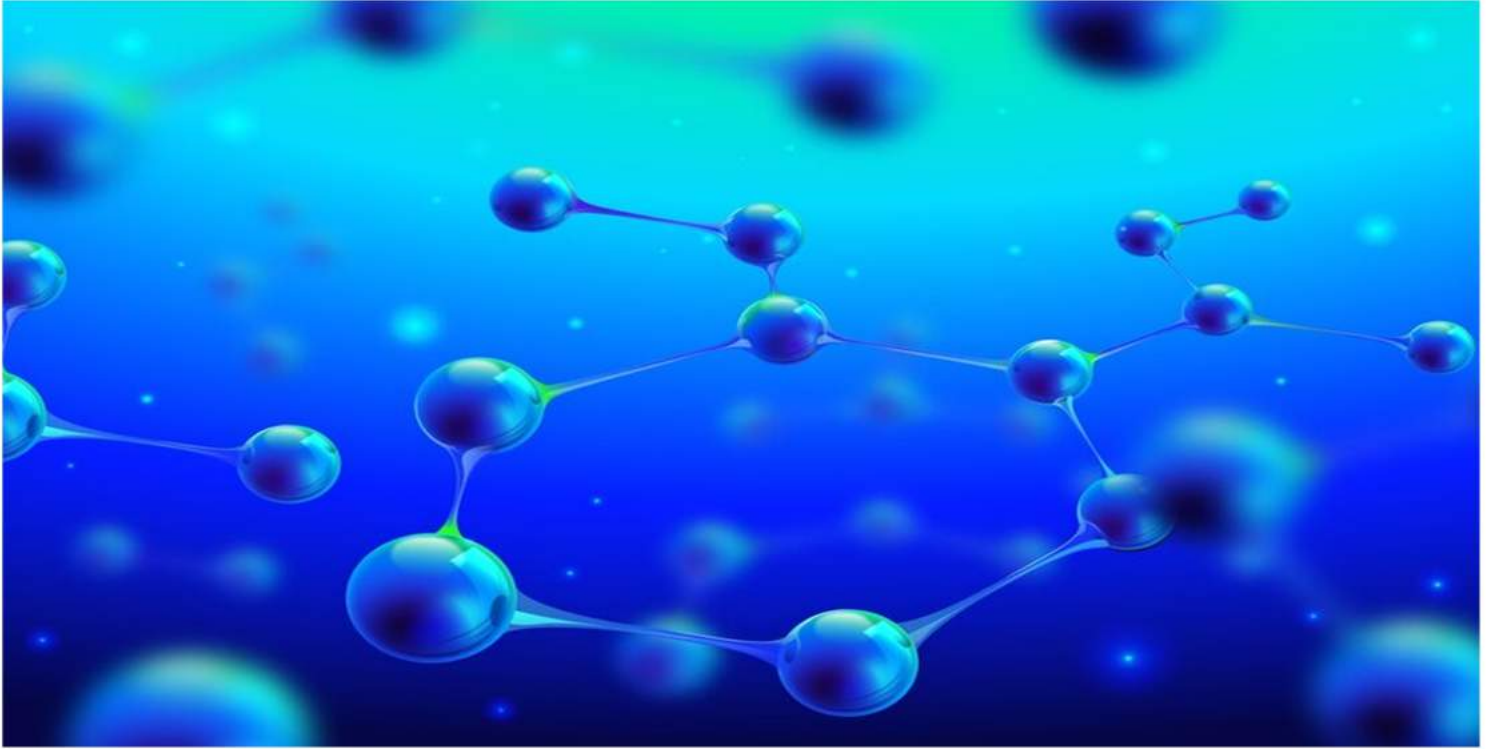


# Call for Book Chapters/Research Papers for Edited Books To be published with ISBN under IIP International publishers, USA and India **Real-World Polymer Composites: Applications and Solutions**



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IIPER1680520958**



**Iterative International Publishers**  
Novi, Michigan, USA  
Chikkamagaluru, Karnataka, India

## Imprint IIP

Registered publisher under Raja Rammohun Roy Agency,  
Government of India and also under Bowker My identifiers  
agency, USA

## Important dates:

Chapter/paper submission starts on: 05/01/2024  
Last date for chapter/paper submission: 15/02/2024  
Acceptance notification: 28/02/2024  
Last date for registration: 15/03/2024

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# Call for Chapters

## Real-World Polymer Composites: Applications and Solutions

### Aims and Scope:

The aim and scope of the book "Real-World Polymer Composites: Applications and Solutions" likely revolve around exploring the practical applications and solutions of polymer composites in various real-world scenarios. Below is a hypothetical description of the aim and scope for such a book: The primary aim of "Real-World Polymer Composites: Applications and Solutions" is to provide a comprehensive and practical understanding of the diverse applications and innovative solutions offered by polymer composites in various industries. The book seeks to bridge the gap between theoretical knowledge and real-world implementation by showcasing tangible examples, case studies, and practical insights. **Diverse Applications:** Explore a wide range of applications where polymer composites are utilized. This includes but is not limited to industries such as aerospace, automotive, construction, electronics, and healthcare. **Innovative Solutions:** Highlight innovative solutions and advancements in polymer composite technology that address real-world challenges. Showcase case studies and success stories to illustrate the impact of these solutions. **Materials and Manufacturing Processes:** Provide an in-depth examination of the materials used in polymer composites and the manufacturing processes involved. Discuss advancements in material science and manufacturing technologies. **Performance and Durability:** Investigate the performance and durability of polymer composites in different environments and conditions. Address concerns related to strength, weight, corrosion resistance, and other relevant factors. **Case Studies:** Include real-world case studies and practical examples that demonstrate the successful application of polymer composites. These cases should cover a spectrum of industries and showcase the versatility of these materials. **Challenges and Solutions:** Discuss challenges encountered in the real-world application of polymer composites and present practical solutions. Address issues related to design, testing, standardization, and integration into existing systems. By addressing the aim and scope outlined above, the book aims to serve as a valuable resource for professionals, academics, and students seeking a comprehensive understanding of the practical applications and solutions offered by polymer composites in diverse real-world scenarios.

### List of Topics:

- Foundations of Polymer Composites
- Manufacturing Processes and Techniques
- Characterization and Testing of Polymer Composites
- Industry-Specific Applications
- Environmental Sustainability
- Challenges and Solutions in Polymer Composite Applications
- Innovations and Emerging Trends
- Case Studies and Practical Examples
- Electric and Hybrid Vehicles
- Conclusion and Future Perspectives

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