

## Special Issue

# Advanced Biobased Polymers: From Composites Production to Drug Delivery and Oil Industry Applications

### Message from the Guest Editors

As the demand for sustainable materials grows, biobased polymers—derived from renewable resources—are becoming a key alternative to petroleum-based plastics. This issue focuses on the diverse applications of biobased polymers in areas such as composite production, drug delivery, and oil industry operations. We invite you to submit original research, reviews, and case studies on:

- Composites Production: Studies on using biobased polymers in composite materials, including their mechanical properties, biodegradability, and the incorporation of fibers and nanomaterials.
- Drug Delivery Systems: Research on biobased polymers in drug delivery, emphasizing controlled release, biocompatibility, and personalized medicine potential.
- Oil Industry Applications: Analysis of biobased polymers in oil recovery and drilling fluids, highlighting their environmental benefits and efficiency.

This issue promotes interdisciplinary collaboration, sharing innovative findings that drive sustainable material development across various industries.

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### Guest Editors

Dr. María Eugenia Taverna

Dr. Yurany Andrea Villada

Dr. Carlos Alberto Busatto

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### Deadline for manuscript submissions

31 December 2025



## Processes

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### Message from the Editor-in-Chief

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