

Special Issue

Biopolymer Processing, Utilization and Applications

Message from the Guest Editor

Biopolymers like cellulose, chitin, collagen, silk, and DNA are frequently studied for their structure, organization, and behavior at various length levels, contributing to advancements in material science and applications ranging from food science (e.g., stabilization and dietary fiber supplementation) to medical devices and fuel cell components. Their functions are retained or even upgraded upon compounding with non-biopolymeric components, making them suitable matrices, fillers or active components of advanced composite materials. In this context, this issue aims to explore advances and challenges in biopolymer research, also focusing on the following topics:

- Biopolymers extraction and post-processing;
- Current trends in biopolymer processing in complex shapes;
- Biopolymers use in medicine and pharmacy;
- Biopolymers utilization in technical fields;
- Advanced methodologies in biopolymers characterization;
- Valorization of biopolymers-rich waste in value added products.

Guest Editor

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