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Mechanical Properties of Biocomposites

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Message from the Guest Editors

Biocomposites contain bio-based materials such as natural fibers or biopolymers. In recent times, these materials have attracted significant interest due to their advantages compared to other materials such as GRP or CFRP composites, including their minor environmental impact, better recyclability and lower cost. The growing environmental consciousness has driven efforts to increase the mechanical performance of these new materials to extend their capabilities and applications.

This Special Issue aims to provide an overview of the recent advances in the mechanical performance of biocomposites. We welcome submissions related to the mechanical characterization of bio-based resins and natural fibers, fracture mechanics and fatigue behavior, testing and characterization methods, durability, and analytical and modeling studies of biocomposites. We also welcome review articles that describe the latest knowledge in the aforementioned fields.

Keywords

- biocomposites
- bio-based polymers
- natural fibers
- nanofibers
- mechanical characterization
- fracture
- fatigue
- durability

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Message from the Editor-in-Chief

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