## Special Issue

## Emerging Biomaterials and Bio-Composites Across Disciplines: Design, Characterization and Applications

## Message from the Guest Editors

Novel synthesis of biopolymer-based material systems is at the forefront of biomedical applications in drug delivery and tissue scaffolding due to biomaterials' biocompatibility, composite versatility, ability to adapt to environmental parameters, and to encapsulate active molecules for sensing and response. Learning from biomedical advances and harnessing biomaterials' natural biodegradability, new blends are recently gaining interest for non-medical applications in engineered consumer products and building construction systems.

## Recommended topics:

- Synthesis of bio-composites tailored to naturally biodegrade at end-of-life.
- Artificial intelligence applied to bio-composite blend property prediction.
- Tooling for large-scale manufacturing of biomaterials and bio-composites.
- Applications of bio-composites in architecture and product engineering.

### **Guest Editors**

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## Deadline for manuscript submissions

closed (20 November 2025)



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## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## **Editor-in-Chief**

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