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**Special Issue on**  
**Biomaterials Design, Synthesis, and Applications**

**Call for Papers**

Biomaterials Design, Synthesis, and Applications is an interdisciplinary field that integrates materials science, chemistry, biology, and engineering to create functional materials for interaction with biological systems. It encompasses the rational design and fabrication of polymers, metals, ceramics, and composites with tailored physicochemical and biological properties, along with synthesis strategies that enable precise control over structure, functionality, and performance. The field also addresses how these materials behave in physiological environments, including biocompatibility, degradation, and bioactivity, and supports a wide range of applications such as tissue engineering, drug delivery, medical implants, diagnostics, and regenerative medicine.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **Biomaterials Design, Synthesis, and Applications**. Potential topics include, but are not limited to:

- Biomaterials design principles
- Polymer biomaterials
- Ceramic biomaterials
- Metallic biomaterials
- Composite biomaterials
- Biomaterials synthesis methods
- Surface modification techniques
- Nanobiomaterials
- Smart biomaterials
- Tissue engineering materials
- Drug delivery systems
- Regenerative biomaterials
- Biointerfaces and interactions
- Biocompatibility assessment
- Biomaterials characterization
- Clinical biomaterials applications

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).



Please kindly specify the “**Special Issue**” under your manuscript title. The research field “**Special Issue - Biomaterials Design, Synthesis, and Applications**” should be selected during your submission.

Special Issue Timetable:

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