



Bioactive Composite Materials: From Preparation to Application

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Deadline for manuscript
submissions:

closed (20 September 2025)

Message from the Guest Editors

Dear Colleagues,

Tissue engineering via the use of composite biomaterials has become a subject of intensive research and has grown in significance in the field of regenerative medicine in recent years. The organs that are impacted determine which materials and synthesis techniques are used. For instance, polymers, glasses, ceramics, metals, carbon-based compounds, hydrogels and other materials are attractive materials for soft tissue and bone tissue engineering. Composites and hybrids are significant biomaterial types because they have a greater capacity for regeneration than their constituent parts. Currently, no specific guidelines have been established for addressing several tissue complications (large defects, lack of substance, comorbidities such as diabetes and osteoporosis, the necessity of auto or allografts, extensive burns, antioresistance), leading to limited treatment options; novel strategies are thus demanded to restore function and strength. To overcome these barriers, researchers have been developing diverse bioengineering methods to realize new and improved therapies for cutaneous and musculoskeletal disorders.





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Message from the Editor-in-Chief

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