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Advances in Biomedical Materials: Preparation, Characterization, and Applications

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Message from the Guest Editor

Biomedical materials are widely used for clinical diagnosis, treatment, and the repair or replacement of damaged tissues. At present, biomedical materials have become one of the fastest developing areas in medicine with the greatest potential. In the century of nanoscale, the scientific and clinical approaches of pharmaceuticals are challenging, and in many cases, the necessity of emphasizing practical solutions and applications to theoretical and research-based problems occurs.

Active biomedical materials are designed to interact with biological systems for therapeutics. These materials have various applications such as tissue regeneration and repair, controlled drug delivery. The synthesis and fabrication of active biomedical materials require the use of different methods and technologies.

The Special Issue coverage spans a wide range of topics from basic science to clinical applications, around the theme of preparation, performance, and evaluation of advanced biomedical materials; the chemical, physical, toxicological, and mechanical behavior of materials in physiological environments; and the response of blood and tissues to biomedical materials.

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Message from the Editor-in-Chief

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