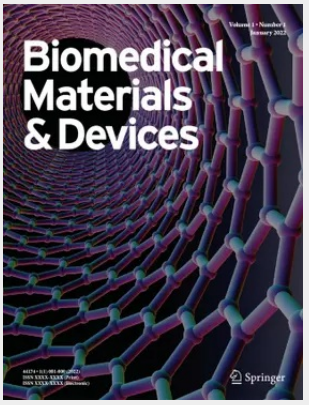
Springer

Biomedical Materials & Devices



The journal serves as an international resource for high impact innovations involving biomedical materials and devices, including recent developments in processing, benchtop evaluation, application-specific testing, clinical translation, and regulatory considerations. In addition to fundamental research involving new types of metallic, ceramic, polymeric, and natural biomaterials, the journal considers manufacturing innovations and clinical translation of devices for the management of circulatory, digestive, endocrine, immune, muscular, nervous, renal, and skin conditions. The journal also serves as a resource for advances in the chemical, mechanical, and biological performance of biomedical materials and devices. The journal addresses interdisciplinary topics that lie at the forefront of research into new types of biomedical materials and devices, including nanostructured biomaterials, biosensors, drug delivery devices, medical electronics, engineered tissues, and assistive devices. Provides an international forum for the rapid publication of original research and reviews that involve materials-based technologies for the diagnosis and treatment of circulatory, digestive, endocrine, immune, muscular, nervous, renal, and skin conditions. Includes innovations in nanostructured and microstructured metals, polymers, ceramics, composites, and natural materials that are used in the medical devices. Considers efforts to evaluate behavior of biomedical materials and devices through biological, chemical, and mechanical studies as well as modeling activities.

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