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Advanced Smart-Biomaterials for Biosensing, Diagnostic and Tissue Engineering

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Deadline for manuscript
submissions:

closed (31 August 2023)

Message from the Guest Editor

Biomaterials, both natural and synthetic, living and nonliving, interact with biological systems for a medical purpose. In medicine, these biomaterials can augment or replace various natural functions, and be applied for diagnostic and therapeutic treatments. In addition to allowing a biomaterial to be biocompatible, biofunctions have various other applications. Smart biomaterials possessing unique physical, chemical, or biological properties have been developed in recent decades to realize instructive/inductive functions in biomaterial–tissue interactions and tissue engineering. This also provides opportunities to engineer different materials and electrical and sensing components with specific and unique advantages for smart biomaterial systems. This Special Issue aims to present the latest works on the development and various applications of smart biomaterials, collect the most recent development and findings, further explore smart biomaterial systems and clinical applications, and provide perspectives on the future direction of this field.



mdpi.com/si/126829

Special Issue



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Message from the Editor-in-Chief

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