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Frontiers in Functional Materials for Bioelectronics and Biosensors

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Message from the Guest Editors

In the past decade, the impact of functional materials on biomedical engineering has seen a dramatic increase. Attributed to the efforts of materials scientists, various promising materials and devices that possess unique biological properties and functions have been developed, such as piezoelectric materials, pyroelectric materials, triboelectric materials, bionic materials, self-healing materials, biodegradable materials, hydrogels, stretchable/flexible devices, and electronic skin. These functional materials have been widely studied and used in energy harvesting from organisms, pulse sensing, human motion detection, electroencephalogram monitoring, electrophysiological monitoring, wireless monitoring of vital signs, etc. The continuous development of functional materials enables scientists and technicians in biomedical engineering to yield more and more valuable achievements for human health and life sciences. Meanwhile, due to advances in nanotechnology and electrical science, wearable/implantable bioelectronics and biosensors have evolved to become miniaturized, multifunctional, soft, and smart, creating new demands for functional materials.

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Message from the Editor-in-Chief

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