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Advanced Electronic Devices for Biomedical Applications

Guest Editor:

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Message from the Guest Editor

This Special Issue aims to provide a wide range of recent research of advanced electronic devices for biomedical applications; not only development of wearable electronic devices and implantable biomedical devices, but also an energy solution of wearable and implantable electronic devices.

Bioresorbable materials are particulary interesting for implantable electrostimulation platforms for temporal medical treatment, which can bypass a post-retrieval surgery. For example, the study of nurve/wound electrostimulation can accelerate recovery of wounded region, which are beneficial for the society. The proper closed-loop systems can realize highly advanced biomedical applications, which can facilitate telemedicine to improve the patient wellness.

Batteries are one of the most promising energy sources for wearable/implantable systems. Energy harvesting devices are also another candidate to recharge/operate the electronic wearable/implantable devices, which can extend lifetime of biomedical devices. Wireless energy transfer system may the other opportunity to develop advanced biomedical applications.

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Message from the Editor-in-Chief

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