Special Issue

Advanced Electronic Devices for Biomedical Applications

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.

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/156584

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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