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Materials, Designs, and Manufacturing Innovations for Bio-Integrated Sensors and Systems

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Message from the Guest Editors

Dear Colleagues,

A broad range of materials proposed for bio-integrated sensors and systems spans from flexible and stretchable forms of conventional inorganic electronic materials to intrinsically soft biomaterials, elastomer composites, hydrogels, liquid metals, organic electronic materials, or emerging nanomaterials and structures. Demonstrated devices include sensors, actuators, energy harvesters, power supplies, and antennas with representative examples from skin-like electronics, implantable electronics, cellular bioelectronic interface, 3D electronic scaffolds, among many others. Various approaches to integrating these materials and devices for advanced bio-electronic systems include additive manufacturing, mechanically guided 3D assembly, micro/nanoscale fabrication, transfer printing, and many others. The latest developments in theoretical, computational, and experimental studies on fundamental materials science, novel design and function of sensors and devices, new fabrication techniques, and potential biomedical applications are all of the interest for this Special Issue.

Dr. Huanyu (Larry) Cheng

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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