

Special Issue

Sensors and Actuators in Prosthetic Microdevices Technology and Applications

Message from the Guest Editors

Implantable sensors and actuators are key components of state-of-the-art biomedical devices designed for operation in the central or peripheral nervous systems or in the cardiovascular network. Implementation of these devices relies on sophisticated micro- and nanofabrication processes of smart, responsive or functional materials. Monitoring of physiological signals and stimulation of cellular activity is controlled through application-specific electronic architecture, data acquisition systems and computational methods. This Special Issue of *Sensors* aims to provide the opportunity to address aspects of design, materials, technology and testing of implantable sensors and actuators as well as covering actual challenges in the application and evaluation of such systems in vitro and in vivo. Contributions may cover any prosthesis interfacing biological tissue comprising electrical, magnetic, optical or biochemical components to interrogate or modulate cellular behaviour inside the body. Both review papers and original research articles are welcome.

Guest Editors

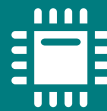
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Deadline for manuscript submissions

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About the Journal

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.

Editor-in-Chief

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