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Advanced Micro/Nano Sensors and Actuators for Disease Diagnosis, Monitoring and Treatment

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Deadline for manuscript submissions:
30 August 2024

Message from the Guest Editors

Dear Colleagues,

The growth of the elderly population and development of chronic and degenerative diseases require advanced systems for on-time diagnosis and continuous monitoring, in order to provide the best assistive solutions/treatments to patients. These systems consist of sensors and actuators that directly interact with the body or organs, as wearable and implantable systems or indirectly in contact with soft organs through integration with medical equipment. Therefore, the specifications of sensors and actuators range from soft, thin and stretchable components (e.g., brain, nerve and heart electrodes, and soft actuators) to rigid and low-power components (e.g., micro-/nanoelectromechanical (MEMS/NEMS) sensors and actuators). The application of these systems paves the way towards smart healthcare.

The aim of this Issue is to present the latest developments of system solutions for overcoming unmet clinical needs. Therefore, scientific contributions in the development of sensors and actuators for electronic muscles/skins, body-/organ-assist or monitoring devices, smart diagnostics, monitoring, and surgical equipment, and drug-delivery systems are welcome.

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Editor-in-Chief

Message from the Editor-in-Chief

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