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Surface Acoustic Wave Sensors

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Message from the Guest Editors

Dear Colleagues,

Surface acoustic wave (SAW) sensors are a class of microelectromechanical systems which rely on the modulation of surface acoustic waves generated by the photolithographically defined interdigital transducers on a piezoelectric substrate to sense a physical phenomenon. The success of SAW sensors is unquestioned to this day; various SAW sensors have been reported to successfully sense the phenomena of pressure, strain, torque, temperature, and mass. Evolving designs and sensitive materials are providing abundant options for the integration of new mechanisms to achieve selectivity and sensitivity. However, the SAW sensor technology is still underdeveloped, and few commercial products currently exist. There are still many challenges facing SAW sensors; the insufficient stability and reliability are a general issue that this community continues to confront. The solution lies in the sophisticated design of the sensor chip, and the exploration of stable sensitive materials. As a result of the abundant opportunities and challenges, we have decided that it is the opportune time to create a Special Issue in *Sensors*. […]

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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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