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Advanced MEMS Resonators and Sensors: Materials, Designs and Applications

Guest Editor:

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Message from the Guest Editor

We are seeing a growing interest in the potential of advanced MEMS resonators and sensors in various fields, including healthcare, communication, environmental monitoring, energy harvesting, automotive, industrial, consumer electronics, aerospace, and defense.

This Special Issue aims to bring together recent progress regarding advanced MEMS resonators and sensors. It will focus on various aspects of MEMS resonators and sensors, including materials, designs, and applications. Topics of interest include, but are not limited to:

- Novel materials for MEMS resonators and sensors, such as 2D materials, piezoelectric materials, and soft materials;
- Innovative designs and fabrication techniques for MEMS resonators and sensors, such as machine learning, biomimicry, and digital fabrication;
- Advanced applications of MEMS resonators and sensors, such as in communication, healthcare, environmental monitoring, and energy harvesting;
- Theoretical and experimental studies on the dynamics, stability, and reliability of MEMS resonators and sensors;
- Integration of MEMS resonators and sensors with other micro- and nanosystems, such as electronics, photonics, and fluidics.



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Special Issue



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Message from the Editor-in-Chief

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