

## Special Issue

# Advanced MEMS Resonators and Sensors: Materials, Designs and Applications

### 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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### Guest Editor

Dr. Guofeng Chen

Skyworks Solutions Inc., San Jose, CA 94555, USA

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### Deadline for manuscript submissions

31 October 2025



## Sensors

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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.

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