

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.

Guest Editor

Dr. Guofeng Chen
Skyworks Solutions Inc., San Jose, CA 94555, USA

Deadline for manuscript submissions

closed (31 March 2026)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/162356

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



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

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)