

Special Issue

MEMS Resonators and Sensors

Message from the Guest Editors

Microelectromechanical systems (MEMS) are increasingly vital in sectors like automotive and aerospace, with growing demand for compact, energy-efficient resonators used in frequency control, sensing, and filtering. While MEMS technology enables detection of displacement, pressure, and temperature, further performance gains are limited by the maturity of current designs and components. This Special Issue focuses on advancing MEMS resonators and sensors through innovative design, dynamic analysis, operation methods, and modelling. Contributions may include theoretical, computational, or experimental studies across topics such as device design, applications, control strategies, and performance enhancement. It aims to engage researchers and engineers working to push the boundaries of MEMS technology.

Guest Editors

Dr. Stewart McWilliam

Department of Mechanical, Materials and Manufacturing Engineering,
University of Nottingham, Nottingham NG7 2RD, UK

Dr. Davin Arifin

Department of Mechanical, Materials and Manufacturing Engineering,
University of Nottingham, Nottingham NG7 2RD, UK

Deadline for manuscript submissions

30 September 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/249997

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 9.4
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)