

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.

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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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