

Special Issue

MEMS Actuators and Sensors 2022

Message from the Guest Editors

This Special Issue invites contributions in the following topics, but is not limited to:

- Novel MEMS device concepts and actuation principles of micro-actuators: e.g. electrostatic, electromagnetic, piezo-electric, thermal, pneumatic, levitation
- Closed loop control and sensing of resonant and non-resonant MEMS driving
- Optical MEMS; e.g. micro-scanning mirrors, spatial light modulators, Fabry-Perot-filter
- Acoustical MEMS: e.g. MEMS loudspeaker based on NED actuation
- MEMS for fluidic and pneumatic MEMS; e.g. micro valves and pumps, ink print heads
- Novel materials and MEMS fabrication technologies for micro-actuators: e.g. CMOS compatible piezoelectric MEMS based on AlNi or AlSrNi; smart hydrogel actuator, shape memory alloy based micro-actuators
- Practical application of micro-actuators: e.g. MOEMS based solid state LiDAR used for autonomous driving, tunable lasers, miniaturized NIR spectrometer; fluidic MEMS actuators for bio-medical applications in diagnostics and lab-on-chip
- Review article on MEMS-actuators, their technology progress and application landscape

Guest Editors

Dr. Thilo Sandner

Prof. Dr. Gerald Gerlach

Prof. Dr. Jan Mehner

Deadline for manuscript submissions

closed (30 September 2022)



Sensors

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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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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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