



## MEMS, Flexible and Wearable Electronic Devices: Progress in Design, Optimization, Fabrication, Materials Integration, Packaging and Applications

Guest Editor:

### Dr. Murat Kaya Yapici

1. Faculty of Engineering and Natural Sciences, Department of Electronics Engineering, Sabanci University, Tuzla, Istanbul 34956, Turkey
2. Department of Electrical Engineering, University of Washington, Seattle, WA 98195, USA
3. Sabanci University Nanotechnology Research and Application Center (SUNUM), Tuzla, Istanbul 34956, Turkey

Deadline for manuscript submissions:

**30 September 2024**

### Message from the Guest Editor

Research in MEMS and flexible and wearable electronic devices entails a holistic perspective at the crossroads of device design, materials, fabrication, integration, packaging, and application. Oftentimes, successful device demonstrations, be they for micromachined sensors/actuators, RF-MEMS, Bio-MEMS, flexible and/or wearable devices, require multiple iterations, cycling between design and fabrication to testing and characterization. Eventually, an optimized “system-level” integrated solution is reached.

This Special Issue focuses on the progress in micro/nano-electro-mechanical-systems (MEMS/NEMS), micromachined sensors and actuators, and flexible and wearable electronic devices, with a particular emphasis on “system-level integration”, including new materials, the development of novel micro/nanofabrication approaches, the investigation of novel sensing modalities to detect and quantify physical, chemical or biological measurements, design and process optimization, packaging and/or assembly and heterogenous integration, to enable new applications and “More than Moore” devices.





*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria  
Elettrica e dell'Informazione  
(Department of Electrical and  
Information Engineering),  
Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

## 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.

## 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 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

*Sensors* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)