

# Special Issue

## New Technologies for Sensors

### Message from the Guest Editors

Advancements in sensor technologies are revolutionizing the way we monitor, detect, and analyze various physical, chemical, and biological phenomena. This Special Issue explores cutting-edge developments in areas such as surface acoustic wave sensors, localized surface plasmon resonance, spectroscopy impedance, split-ring resonators, magnetoresistive sensors, piezoelectric sensors, and transistor-based sensors. These innovations are driving progress in applications ranging from biomedical diagnostics to environmental monitoring and material characterization.

Particular emphasis is given to integrating these advanced sensors into innovative platforms, such as lab-on-a-chip systems, which enable compact and multifunctional solutions. Their deployment in the Internet of Things (IoT) ecosystem is also explored, showcasing their potential to create interconnected, data-driven environments. Contributions addressing novel designs, materials, and emerging applications are invited, with the aim of inspiring research that defines the future of sensor technology.

---

### Guest Editors

Dr. Silvia Rizzato

Omics Research Group, Department of Mathematics and Physics, University of Salento, CNR-Institute of Nanotechnology, INFN Sezione di Lecce, Via per Monteroni, 73100 Lecce, Italy

Dr. Antonino Proto

Medical Physics Research Group, Department of Neuroscience and Rehabilitation, University of Ferrara, INFN Sezione di Ferrara, Via G. Saragat 1, 44122 Ferrara, Italy

---

### Deadline for manuscript submissions

closed (30 September 2025)



## Technologies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 8.5



[mdpi.com/si/229351](https://mdpi.com/si/229351)

*Technologies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[technologies@mdpi.com](mailto:technologies@mdpi.com)

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





# Technologies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 8.5



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



## About the Journal

### Message from the Editor-in-Chief

*Technologies*, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

---

### Editor-in-Chief

Prof. Dr. Manoj Gupta

Department of Mechanical Engineering, National University of  
Singapore, Singapore 117576, Singapore

---

### Author Benefits

#### High Visibility:

indexed within ESCI (Web of Science), Scopus, Inspec, Ei  
Compendex, INSPIRE, and other databases.

#### Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1  
(Computer Science (miscellaneous))

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 19.1 days after  
submission; acceptance to publication is undertaken in 3.6  
days (median values for papers published in this journal in  
the second half of 2025).