

## Special Issue

# Sensors, Systems and Methods for Power Quality Measurements

### Message from the Guest Editors

This Special Issue is dedicated to devices, measurement/generation systems, and methods/algorithms essential for measuring, analyzing, replicating, synthesizing, and mitigating power quality signals and phenomena. Detecting power quality phenomena demands suitable voltage and current sensors/transducers, which require periodic characterization. Consequently, new-generation systems/instruments are imperative for simulating power quality phenomena and evaluating sensor performance. Subsequently, specialized algorithms and signal processing methods are essential for isolating relevant components and conducting comprehensive analyses. Finally, well-known parameters are typically used to quantify power quality events. However, new ones are welcomed and sometime necessary to address emerging aspects.

- sensors
- transducers
- power quality
- harmonics
- supraharmonics
- signal processing
- high frequency
- measurement systems
- signal generation
- disturbances

---

### Guest Editors

Dr. Alessandro Mingotti

Department of Electrical, Electronic and Information Engineering, Guglielmo Marconi Alma Mater Studiorum, University of Bologna, Viale del Risorgimento 2, 40136 Bologna, Italy

Dr. Mario Luiso

Department of Engineering, University of Campania "Luigi Vanvitelli", 81031 Aversa, Italy

---

### Deadline for manuscript submissions

30 June 2026



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/201831](https://mdpi.com/si/201831)

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

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





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
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)