

Special Issue

Precision Metrology Using Ultrashort Pulse Laser and Optical Frequency Comb

Message from the Guest Editors

This Special Issue aims to address to all types of sensors, measuring instruments, and measurement technologies based on the ultrashort pulse laser and optical frequency comb for precision measurement, including but not limited to:

- The measurement of length, thickness, distance, and strain, angle;
- The measurement of linear/angular displacement, velocity, and acceleration;
- The measurement of surface form and surface texture;
- The measurement of the external and internal 2D/3D structures of biological and nonbiological materials;
- The measurement of diffractive index and the mechanical properties of materials;
- Microscopy using an ultrashort-pulse laser source and the optical frequency comb;
- Optical frequency comb spectroscopy;
- The development of a visible/infrared ultrashort pulse laser source;
- The phase stabilization of the optical frequency comb;
- Related measurement standards and traceability.

Guest Editors

Prof. Dr. Wei Gao

Prof. Dr. Seung-Woo Kim

Dr. Guanhao Wu

Prof. Dr. Eberhard Manske

Deadline for manuscript submissions

closed (25 March 2025)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/105571

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
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)