Special Issue

Molecular Opto-Electronic Sensing Devices and Techniques

Message from the Guest Editors

With the recent developments in molecule-related electronics and photonics, the interplay among molecules, electrons and photons has attracted increasing attention in fields ranging from physics to biology to chemistry, leading to a new research direction termed “molecular opto-electronics ”. Molecular opto-electronics is the study and application of molecule-integrated opto-electronic devices, or instruments that use such devices, for the detection, manipulation and application of light, electrons or chemical molecules. Efforts are underway to extend the applications of molecular opto-electronic devices to various sensing fields, offering new opportunities for biosensing, high-precision therapies, human–machine interfaces, etc. This Special Issue covers the latest research on molecular opto-electronic sensing techniques, including the design and fabrication of opto-electronic devices, instrumentation, measurement, postprocessing and various bio/chemical sensing applications. For more information, please visit here.

Guest Editors

Dr. Longhua Tang

Dr. Shenglin Cai

Dr. Ren Ren

Deadline for manuscript submissions

closed (15 April 2025)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/124279

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

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

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