

Special Issue

Surface Plasmon Sensors

Message from the Guest Editors

In recent years, basic and applied research on surface plasmon resonance (SPR) has been actively conducted. In particular, the SPR sensor is one of the devices that has been actively investigated in applied research of an optical platform using the propagation of surface plasmon polaritons. The utilization of nanostructures has enabled the development of more sensitive detection formats adapted to multiplexed configurations. Specifically, the unique optical and electronic properties of nanomaterials have permitted the advancement of localized surface plasmon resonance (LSPR) and surface-enhanced raman scattering (SERS) applications. Likewise, the fabrication of nanopatterned structures through lithographic patterning has provided high spatial resolution surface structures while improving the sensitivity of the systems. In this Special Issue, we would like to compile the latest research results on the theory and experiments regarding the measurement principle, detection formats, performances, and applications for surface plasmon sensors, and to discuss the current status and future prospects of surface plasmon sensor performance. For more details, please visit [here](#).

Guest Editors

Dr. Atsushi Motogaito

Division of Electrical and Electronic Engineering, Graduate School of Engineering, Mie University, Mie, Japan

Prof. Dr. Elba Mauriz

1. Department of Nursing and Physiotherapy, University of León, 24071 León, Spain
2. Institute of Food Science and Technology (ICTAL), La Serna 58, 24007 León, Spain

Deadline for manuscript submissions

closed (31 July 2022)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/55094

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)