

## Special Issue

# Optical Sensors and Gauges Based on Plasmonic Resonance

### Message from the Guest Editor

Every day, sensors based on surface plasmon resonance (SPR) are used more and more in a great variety of new applications and developments, for instance, in engineering, physics, chemistry, biotechnology, environment, medicine, etc. They have been shown to have a high sensitivity and resolution and to be able to integrate easily since they are in the dimensions of nano-optics.

In this Special Issue, both theoretical and experimental research will be considered, articles should describe new detection techniques or substantial improvements over an existing one or a major new application of an existing method. All types of plasmonic sensors will be considered in applications, sensor elements, plasmonic structures, functionalization protocols for metallic surfaces, or any other innovation in the field of plasmonic sensors. Due to the pandemic and the rapid proliferation of COVID-19, research on SPR sensors related to the detection of SARS-CoV-2 will also be considered.

I encourage you to contribute to this Special Issue, papers should demonstrate the most recent advances in plasmonic sensors with new scientific knowledge, designs, and their practical applications.

---

### Guest Editor

Prof. Dr. Francisco Pérez-Ocón  
Department of Optics, University of Granada, 18071 Granada, Spain

---

### Deadline for manuscript submissions

closed (30 March 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/73466](https://mdpi.com/si/73466)

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, 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), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )