

Special Issue

Recent Advances in Optical Sensors

Message from the Guest Editors

Optical sensors, which use light to detect changes in the environment or in objects, have undergone a remarkable evolution thanks to innovations in materials, manufacturing technologies and signal processing. This has made it possible to improve the accuracy, sensitivity and selectivity of measurements, opening up new possibilities in fields such as health, safety, environmental monitoring and automation.

The main objective of this Special Issue is to bring together original contributions presenting recent developments in the design, fabrication and application of optical sensors. Submitted papers are expected to address key aspects, such as new sensing principles, improvements in sensor configurations, advances in photonics-based technologies and integrated optics, as well as innovative approaches to sensing under extreme conditions. Authors are invited to present experimental, theoretical or simulation studies, with a focus on the practical applicability of optical sensors and the impact they may have on future technologies.

Guest Editors

Dr. Oscar E. Bonilla Manrique

Electronics Technology Department, Carlos III University of Madrid,
28911 Leganés, Spain

Dr. Pedro Martín-Mateos

Electronics Technology Department, Carlos III University of Madrid,
28911 Leganés, Spain

Deadline for manuscript submissions

20 September 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/218389

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)