

Special Issue

Recent Development of Resonance-Based Optical Sensors and Biosensors

Message from the Guest Editor

This Special Issue “Recent Development of Resonance-Based Optical Sensors and Biosensors” will focus on the unique and novel implementations of optical sensors and biosensors that allow them to perform measurements in challenging physical, chemical, and biomedical applications. We encourage authors to submit original, high quality, relevant research articles and reviews for this Special Issue. Potential topics include, but are not limited to, recent developments in the following areas:

- The design/development/optimization of optical sensors;
- The design/development/optimization of optical biosensors;
- The design/development/optimization of optical detection platforms;
- The application of an optical system to measure physical parameters, chemical compounds, or biomolecules
- The application of an optical system to measure multiple parameters with a single device;
- Real-time, resonance-based sensing/biosensing;
- Fiber-optics devices and optical micro-/nano-resonators;
- Novel photonic devices or methodologies in optical sensing/biosensing

Guest Editor

Dr. Francesco Chiavaioli

Institute of Applied Physics “Nello Carrara”, CNR-IFAC, Via Madonna del Piano 10, 50019 Sesto Fiorentino, Italy

Deadline for manuscript submissions

closed (31 December 2021)



Optics

an Open Access Journal
by MDPI

Impact Factor 1.6
CiteScore 2.6



mdpi.com/si/30960

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

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





Optics

an Open Access Journal
by MDPI

Impact Factor 1.6
CiteScore 2.6



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



About the Journal

Message from the Editorial Board

Optics (ISSN 2673-3269) aims at establishing *Optics* as a leading journal for publishing high impact fundamental research and applications in optics field with a fast processing time and high quality service. The journal particularly welcomes both theoretical (simulation) and experimental research within our journal's scope. We encourage scientists to publish their experimental and theoretical results in as much detail as possible. So, there is no restriction on the length or pages of the papers. The full experimental details must be provided so that the results can be reproduced. Electronic files and software regarding the full details of the calculation or experimental procedure, if unable to be published in a normal way, can be deposited as supplementary electronic material.

Editors-in-Chief

Prof. Dr. Costantino De Angelis

Department of Information Engineering, University of Brescia, 25123
Brescia, Italy

Prof. Dr. Thomas Seeger

Institut Fluid- und Thermodynamik, Lehrstuhl für Technische
Thermodynamik, Universität Siegen, Paul-Bonatz-Straße 9-11, 57076
Siegen, Germany

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO,
and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 23 days after
submission; acceptance to publication is undertaken in 4.8
days (median values for papers published in this journal in
the first half of 2025).

Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and
reviewer names published annually in the journal.