

Special Issue

Advanced Laser Phototherapy: Sensing and Applications

Message from the Guest Editors

Lasers have been used in different therapy fields like dermatology, ophthalmology, dentistry and cancer therapy. Different physical processes are involved, depending on the wavelength being used, laser operation mode (continuous or pulsed), intensity and dose (or fluence) being applied. Ablation, photochemical and thermal interactions are the main mechanism than can be involved. Besides, the recent advances in nanotechnology have opened new possibilities for laser phototherapy techniques, using the phenomena of surface plasmon resonance to mediate the interaction processes. This Special Issue of *Sensors* will address the sensing techniques and methodologies used in the research and development of advanced laser phototherapy processes, including (but not limited to) guiding strategies, monitoring and evaluation sensing. Submissions regarding the development of sensors with potential application for laser phototherapy are also welcome.

Guest Editors

Dr. João M. P. Coelho

Instituto de Biofísica e Engenharia Biomédica (IBEB), Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

Dr. Pedro Vieira

Department of Physics, Faculty of Sciences and Technology, Nova University of Lisbon, Lisbon, Portugal

Deadline for manuscript submissions

closed (20 January 2023)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/82055

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 8.2
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

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)