



Optical Methods for Tissue Diagnostics

Guest Editors:

Dr. Nikolaos Kourkoulis

Department Medical Physics,
School of Health Sciences,
Faculty of Medicine, University of
Ioannina, 45110 Ioannina, Greece

Dr. Edgar Guevara

CONACYT-Universidad Autónoma
de San Luis Potosí, San Luis
Potosí, Mexico

Deadline for manuscript
submissions:

closed (29 February 2020)

Message from the Guest Editors

Dear Colleagues,

The use of non-ionizing radiation offers great promise as a non-invasive medical diagnosis tool. Despite the limited penetration depth in living tissue, optical methods are steadily bridging the gap between radiology and histopathology, due to their sensitivity to molecular, functional and structural content. This Special Issue attempts to cover novel works in tissue diagnostics using optical techniques. Contributions of both human studies and animal models are encouraged using either experimental approaches or analytical methods. The volume is open for innovative contributions involving aspects of the following topics:

Molecular spectroscopy and microspectroscopy;

Absorption, reflectance, emission and fluorescence spectroscopy;

Light-tissue interactions;

Optical clearing methods;

Tomographic imaging, such as optical coherence tomography, diffuse optical tomography and photoacoustic tomography.

Dr. Nikolaos Kourkoulis

Dr. Edgar Guevara

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)