



Photoacoustic Effects for Biomedical Imaging and Diagnostics

Guest Editors:

Dr. Patrick D. Kumavor

Biomedical Engineering
Department, University of
Connecticut, Storrs, CT 06269,
USA

Dr. Hassan S. Salehi

Department of Electrical and
Computer Engineering, California
State University, Chico, CA 95929,
USA.

Dr. Chen Xu

Department of Computer
Engineering Technology, New
York City College of Technology,
City University of New York,
Brooklyn, NY 11201, USA

Deadline for manuscript
submissions:

closed (12 October 2021)

Message from the Guest Editors

Discount Paper Invitation to Contribute to Special Issue
Titled “Photoacoustic Effects for Biomedical Imaging and
Diagnostics”

The scope of this Special Issue is on research and clinical
work demonstrating the application of the photoacoustic
effect for biomedical imaging and diagnostics. The areas of
interest include but are not limited to:

1. Photoacoustic imaging techniques including tomography, microscopy, and nanoscopy;
2. Photoacoustic instrumentation design and software development;
3. Photoacoustic imaging co-registration with other modalities, such as optical coherence tomography (OCT), ultrasound, and MRI;
4. Photoacoustic guided surgery;
5. Photoacoustic image reconstruction algorithms;
6. Photoacoustic signal and image processing;
7. Application of machine and deep learning in photoacoustic imaging;
8. Contrast agents and nanoparticles for enhanced imaging;
9. Multispectral/spectroscopic photoacoustic imaging;
10. Biological tissue characterization using the photoacoustic effect;
11. Novel light sources for photoacoustic applications;
12. Novel photoacoustic detectors and receivers.





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), 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](#)