

Special Issue

Optical Imaging for Biomedical Applications

Message from the Guest Editors

Optical imaging is a type of imaging technique that uses visible, ultraviolet, and infrared light to create images of soft tissue without using any harmful radiation. Unlike X-rays, which require ionizing radiation, optical imaging is a safe and non-invasive way to monitor disease progression and treatment efficacy. The Special Issue, entitled "Optical Imaging for Biomedical Applications," showcases recent advancements in developing, designing, modeling, implementing, and characterizing optical imaging techniques for biomedical applications. Special Issue covers, but is not limited to, the following topics:

Microscopy;
Digital pathology;
Infrared spectroscopy;
Raman spectroscopy;
NIR spectroscopy;
Hyperspectral imaging;
Combinations with MRI, X-ray, CT, or micro-CT;
Advanced imaging techniques and systems;
Imaging-guided surgery and treatment;
Artificial intelligence-based computational imaging techniques for biomedical imaging;
Image processing.

Guest Editors

Dr. Johannes Dominikus Pallua
Prof. Dr. Christian Huck
Prof. Dr. Jürgen Popp

Deadline for manuscript submissions

closed (20 April 2025)



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

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About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).