

Advances in Biophotonics

Guest Editors:

Dr. Lin Huang

School of Electronic Science and Engineering, University of Electronic Science and Technology of China, No.2006, Xiyuan Ave, West Hi-Tech Zone, Chengdu 611731, China

Dr. Zeyu Chen

College of Mechanical and Electrical Engineering, Central South University, No.605 South Lushan Road, Changsha 410083, China

Dr. Huan Qin

College of Biophotonics, South China Normal University, No.55, West of Zhongshan Avenue, Tianhe District, Guangzhou 510631, China

Deadline for manuscript submissions:

closed (31 October 2023)

Message from the Guest Editors

Biophotonics is a combination of biology and photonics, with photonics being the science and technology dedicated to the generation, manipulation, and detection of photons. It involves the development and application of optical techniques, particularly imaging, for the study of biological molecules, cells, and tissue. Nowadays, biophotonics is an interdisciplinary field involving the interaction between photons and biological materials including tissues, cells, sub-cellular structures, and molecules. The objective of this Special Issue is to provide a vehicle for communicating important advancements in the use of optical methods/technologies for medical imaging and therapies.

For this Special Issue, the topics of interest include, but are not limited to:

- Optical imaging;
- Terahertz imaging;
- Optical coherence tomography;
- Near-infrared spectroscopy;
- Photoacoustic/thermoacoustic tomography and microscopy;
- Photobiomodulation;
- Photodynamic therapy;
- Photoimmunotherapy;
- Deep learning and artificial intelligence in optical imaging;
- Translational and clinical applications.

