



Photoacoustic Imaging and Sensing

Guest Editor:

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Deadline for manuscript
submissions:

closed (20 April 2025)

Message from the Guest Editor

Special Issue "Photoacoustic Imaging and Sensing" aims to present original state-of-the-art research articles on almost all aspects of photoacoustic imaging. However, studies mainly about the synthesis and characterization of photoacoustic contrast agents, with only marginal relation to photoacoustic imaging, are outside the scope of this Issue. Topics include, but are not limited to:

- Tomography and deep-tissue imaging;
- Photoacoustic microscopy;
- Contrast agents, molecular probes, and nanoparticles;
- Pre-clinical imaging, clinical translation, and clinical applications;
- Multi-modality systems involving light and sound;
- Microwave-induced ultrasound imaging and sensing;
- Laser ultrasound methods and applications;
- Physics and modeling of photoacoustic generation, propagation and detection;
- Advanced photoacoustic and ultrasound signal processing and analysis;
- Image reconstruction algorithms including deep learning;
- Novel lasers and light delivery technologies for the generation and detection of ultrasound;
- Spectroscopy and analysis of compounds.





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Message from the Editor-in-Chief

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