Special Issue

Photoacoustic Imaging and Sensing: New Developments and Horizons

Message from the Guest Editors

In recent decades, significant advances have been made in **Photoacoustic Imaging and Sensing**, both in instrumentation and methodology. The availability of powerful, low-noise laser sources and highly sensitive acoustic detectors has increased the performance of photoacoustic-based setups in terms of detection limits, imaging depth, spectral flexibility, and bandwidth. Progress in reconstruction algorithms and quantitative analysis has enhanced the extraction of functional and molecular information. Photoacoustic-based techniques are now applied in diverse areas. This Issue, **"Photoacoustic Imaging and Sensing: New Developments and Horizons",** aims to highlight **fundamental progress** and **emerging applications**, offering an **up-to-date overview** of the field and identifying future research directions. Contributions are welcome in all fields related to photoacoustic imaging and sensing, including but not limited to:

- Photoacoustic spectroscopy;
- Quartz-enhanced photoacoustic spectroscopy;
- Cantilever-enhanced photoacoustic spectroscopy;
- Novel materials for photoacoustic imaging and spectroscopy;
- Optical fibre-based photoacoustic imaging and sensing;
- Applications of photoacoustic imaging in medicine.

Guest Editors

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Message from the Editorial Board

Optics (ISSN 2673-3269) aims at establishing *Optics* as a leading journal for publishing high impact fundamental research and applications in optics field with a fast processing time and high quality service. The journal particularly welcomes both theoretical (simulation) and experimental research within our journal's scope. We encourage scientists to publish their experimental and theoretical results in as much detail as possible. So, there is no restriction on the length or pages of the papers. The full experimental details must be provided so that the results can be reproduced. Electronic files and software regarding the full details of the calculation or experimental procedure, if unable to be published in a normal way, can be deposited as supplementary electronic material.

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