

Special Issue

Advances in Photothermal Techniques for Material Characterization and Sensor Development

Message from the Guest Editor

The continuous advancement of photothermal techniques enables the characterization of functional materials and provides insights into their properties and processes, determining their functions and applications in modern technology. This Special Issue aims to bring together authors and readers to share new directions and the latest research in photothermal sensor development for material characterization. Topics include:

- **Fundamentals** of photothermics/photoacoustics—thermophysical properties, laser ultrasonics, surface waves, nanoscale and ultrafast phenomena, laser physics, bio- and nanophotonics.
- **Methodologies**—instrumentation, measurement techniques, data processing, imaging, microscopy, spectroscopy, tomography, depth profiling, non-destructive evaluation.
- **Material characterization**—material science, analytical chemistry, photochemistry, thermal analysis, low-dimensional systems, nanoscale phenomena.
- **Applications**—microfluidics, atmospheric monitoring, environmental, agriculture, food, biomedical sensing, imaging, photothermal therapy, laser medicine, bioengineering.

Guest Editor

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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