Special Issue

Latest Trends in Laser Sensors Technology

Message from the Guest Editors

Innovative laser-based sensing technologies is a scientific branch itself. The high-quality coherent light offered by lasers has endless uses when it comes to sensing the world around us with maximum accuracy and minimum perturbation. This Special Issue on "**Latest Trends in Laser based Sensing Technologies**" will serve as a showcase of the most recent and relevant advances in the field, oriented to the following topics (but not limited to):

- Laser-based spectroscopy and imaging techniques from UV to THz range, including NIR and MIR. Focus on temporally resolved information.
- Novel laser sources for precise and versatile interrogation: diode lasers technologies (VCSELs, VECSELS, QCLs, ...), fiber lasers, optical frequency combs, nonlinear optical sources, microring resonators...
- Measurement principles: absorption, fluorescence, reflection, scattering, photoacoustic and photothermal, Raman, coherent anti-Stokes Raman (CARS), dispersion, dual-optical frequency combs, etc.

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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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