

Special Issue

Advances in Laser Technology and Its Application in Environmental Analysis

Message from the Guest Editors

The growth of human activities is translated into rising environmental pollution levels, becoming a global issue for human health. Therefore, developing advanced techniques to monitor and analyze environmental pollutants is highly needed. In this regard, laser-based techniques have become a useful and reliable tool to analyze pollutants in any environmental matrix. Laser-induced plasma spectroscopy (the LIBS technique) allows for identifying and quantifying pollutants in an environmental sample. This Special Issue deals with research on developed advances within the field of laser technology to investigate environmental pollution levels, involving applying novel approaches, quantifying emergent compounds (microplastics), comparison with conventional techniques, a combination of laser-based methodologies, artificial intelligence techniques, and alternative data processing. **Keywords**

- laser-based techniques
- environmental sciences
- air quality
- emergent compounds

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Deadline for manuscript submissions

closed (20 May 2025)



Applied Sciences

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/200645

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