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# **Optical Spectroscopy for Sensing, Monitoring and Analysis**

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Deadline for manuscript submissions:

30 June 2024

# **Message from the Guest Editors**

There is a growing need for sensors that are capable of monitoring a plethora of analytes in complex and hazardous environments in real time. Optical spectroscopy is an ideal candidate for these sensor applications due to the intrinsic ability to send light to and from a measurement point using optics or fibers, thereby protecting expensive equipment from exposure. These applications of optical spectroscopy have seen rapid growth in their capabilities due to advances in equipment, modeling techniques, and sensor fusion. Outside of in situ analysis, similar advances have been made to enable the use of optical spectroscopy for further sample characterization.

This Special Issue therefore aims to put together original research and review articles on recent advances, technologies, solutions, applications, and new challenges in the field of optical spectroscopy for sensing, monitoring, and analysis.

Potential topics include but are not limited to:

- optical spectroscopy
- laser spectroscopy
- laser-induced breakdown spectroscopy
- Raman spectroscopy
- spectrophotometry
- fluorescence spectroscopy
- online monitoring
- sensor fusion
- chemometric Declassue
  machine learnin Declassue



mdpi.com/si/154387









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# **Message from the Editor-in-Chief**

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