



Advanced Spectroscopy-Based Sensors and Spectral Analysis Technology

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Advanced spectroscopy plays a crucial role in the application of sensors across various industries, enabling precise and sensitive detection of substances based on their unique spectral signatures.

The application of spectroscopy to sensors offers several distinct advantages. One key benefit is the ability to provide a fast response in real-time analysis, crucial for applications where timely information is essential. Spectroscopic sensors enable on-line monitoring, allowing continuous data collection without the need for sample preparation or time-consuming laboratory analysis.

The advent of chip spectrometers has further revolutionized spectroscopy for sensors. These miniaturized, portable devices enhance accessibility and versatility, enabling on-site measurements in various environments. Their compact size and low power consumption make them suitable for integration into a wide range of sensing devices, facilitating deployment in diverse settings.

Topics of interest include, but are not limited to:

- sensors
- spectroscopy
- spectral analysis
- laser spectroscopy
- chip spectrometers
- chemometry





sensors



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Message from the Editor-in-Chief

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