



## Advanced Spectroscopy Technology for Chemical Qualitative and Quantitative Analysis

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### Message from the Guest Editors

Dear Colleagues,

Through spectroscopic research, various microscopic and macroscopic properties can be analyzed, including the energy levels and geometric structures of atoms and molecules, the reaction rates of specific chemical processes, the concentration distribution of substances in a specific area of space, etc.

In recent years, with the application of advanced sensing technology and devices in spectral instruments, the wavelength range, spectral resolution, time-space resolution, and other spectral measurement indicators have made considerable progress. The improvement of hardware indicators, combined with advanced chemometrics algorithms, such as artificial intelligence and machine learning, has greatly improved the speed and accuracy of chemical qualitative and quantitative analysis.

This Special Issue aims to collect the latest achievements of advanced spectral technology in the fields of life science, food, the environment, and aerospace.





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