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Advanced Spectroscopy Technology for Chemical Qualitative and Quantitative Analysis

Guest Editors:

Dr. Xiong Wan

Shanghai Institute of Technical Physics Chinese Academy of Sciences, Shanghai, China

Dr. Lei Zhang

State Key Lab of Quantum Optics and Quantum Optics Devices, Institute of Laser Spectroscopy, Shanxi University, Taiyuan, China

Prof. Dr. Jiulin Shi

National Engineering Laboratory for Nondestructive Testing and Optoelectric Sensing Technology and Application, Nanchang Hangkong University, Nanchang 330063, China

Deadline for manuscript submissions: **31 August 2024**

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.



mdpi.com/si/164703







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Editor-in-Chief

Prof. Dr. Nicole Jaffrezic-Renault

Institute of Analytical Sciences, UMR CNRS 5280, Department LSA, 5 Rue de La Doua, 69100 Villeurbanne, France

Message from the Editor-in-Chief

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Chemosensors Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/chemosensors chemosensors@mdpi.com X@chemosens_MDPI