



## Optical Chemical Sensors and Spectroscopy for Chemical Trace Element Detection

Guest Editors:

**Prof. Dr. Jingsong Li**

Key Laboratory of Opto-Electronic Information Acquisition and Manipulation of Ministry of Education, Anhui University, Hefei 230601, China

**Dr. Hao Deng**

Key Laboratory of Environmental Optics and Technology, Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Science, Hefei 230031, China

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### Message from the Guest Editors

Optical spectroscopy techniques have been used for centuries to determine the chemical composition of materials and extract useful information by sensing properties and converting them into an optical signature. In 1960, Maiman's invention of lasers (i.e., light amplification by stimulated emission of radiation) has revolutionarily enabled spectroscopy techniques as powerful analytical tools for qualitative and quantitative chemical analysis, which could provide wavelength tunability with high resolution and selectivity, as well as different timescales of excitation.

This Special Issue aims to gather scientific contributions focused on the current state-of-the-art of laser spectroscopy sensing and analytical techniques for chemical trace element (including gas, liquid, and solid, etc.) analysis and the related applications in environment, industry, agriculture, biology and medicine, food, public and national security, etc.





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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

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