

## Special Issue

# Applications of Spectroscopic Chemical Sensing in Challenging Environments

### Message from the Guest Editors

This Special Issue of *Sensors* will be dedicated to spectroscopic sensing for the identification of chemical components or the quantitative measurement of their concentration in challenging environments. Challenging environments include industrial and environmental settings, biomedical situations, planetary or other space fields, remote sensing determinations, harsh environments, or other environments that present measurement challenges. Spectroscopic sensors are those that rely on fundamental spectroscopic characteristics of a sample, such as infrared, Raman, electronic absorption, fluorescence, multiphoton, or wave mixing, microwave, THz, x-ray, nuclear, NMR, or other characteristics. Processing techniques will also be considered. Papers on miniaturization, integrated or compressed sensing, reduction of dimensions, and extensions to higher dimensions are encouraged. For more information, please visit: [mdpi.com/si/27283](https://mdpi.com/si/27283)

### Guest Editors

Dr. Christopher Michael Jones  
Halliburton Energy Services

Prof. Dr. Michael L. Myrick  
Department of Chemistry and Biochemistry, University of South Carolina, Columbia, USA

### Deadline for manuscript submissions

closed (31 December 2020)



## Sensors

an Open Access Journal  
by MDPI

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/27283](https://mdpi.com/si/27283)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)



## About the Journal

### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

---

### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)