

## Special Issue

# Mid-Infrared and THz Spectroscopy: Innovative Tools and Applications

### Message from the Guest Editors

The present Special Issue is dedicated to state-of-the-art laser spectrometers in the mid-IR and THz range, including smart techniques and new theoretical and experimental approaches for gas-phase molecular spectroscopy. Particular interest will be given to innovative tools for spectroscopy in such spectral regions, including but not limited to emerging photonic technologies, novel and improved sources, non-linear crystals, supercontinuum sources, waveguides, resonators, hollow core fibers, novel and improved detectors, high-performance resonant cavities, electro-optic devices, and metamaterials. Finally, a focal point will be the latest advances in mid-IR and THz frequency metrology, by using consolidated or emerging frequency comb synthesizers (i.e., microresonators, quantum cascade lasers, or quadratic combs).

---

### Guest Editors

**Dr. Mario Siciliani de Cumis**

Agenzia Spaziale Italiana, Contrada Terlecchia snc, I-75100 Matera, MT, Italy

**Dr. Luigi Consolino**

Istituto Nazionale di Ottica CNR, Via Nello Carrara 1, I-50019 Sesto Fiorentino FI, Italy

---

### Deadline for manuscript submissions

closed (15 September 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/26856](https://mdpi.com/si/26856)

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )