

## Special Issue

# Terahertz Technology for Environment, Medical Applications, Cultural Heritage and Agri-Food

### Message from the Guest Editor

Terahertz (THz) radiation (0.1-10 THz) has garnered enhanced interest from the scientific community as it represents an innovative field in many disciplines, including environmental monitoring, biological and health care applications, diagnostics related to cultural heritage, and agrifood investigations. THz radiation can provide information regarding the roto-vibrational and collective modes of molecules, offering their selective identification. This is crucial in many applications, such as the environmental monitoring of pollutants in the gas phase. Moreover, the ability of THz to penetrate non-polar materials and to be reflected by metals could facilitate the identification of defects, the attainment of stratigraphic information on multilayered objects such as artworks, and the analysis of their structural conditions. This Special Issue aims to disseminate scientific advancements in technology, methodologies and the application of terahertz radiation.

---

### Guest Editor

Dr. Petrarca Massimo

Department of Basic and Applied Sciences for Engineering, Sapienza University of Rome, 00161 Rome, Italy

---

### Deadline for manuscript submissions

closed (31 December 2024)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/207314](https://mdpi.com/si/207314)

*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/](https://mdpi.com/journal/)

[appls.c](https://appls.c)





# 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, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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