

## Special Issue

# Advances in THz Spectroscopy

### Message from the Guest Editor

Dear colleagues, THz spectroscopy is still in its infancy and a rapid increase in the efficiency and quality of spectroscopy techniques will develop in the coming years. In particular, for fundamental research the interaction of high-intensity THz pulses with matter is a hot topic, which requires an extension of the theoretical models of non-linear phenomena from optical frequencies to THz ones. In this special issue, we are planning to collect a series of research studies related to THz spectroscopy. They may include experimental investigations, theoretical models and methods of data analysis for signal extraction; as well as new sources of THz radiation, detection apparatus including methods of imaging and/or characterization of THz radiation.

### Guest Editor

Prof. Dr. Renato Torre

European Laboratory for Non-Linear Spectroscopy and Department of Physics and Astronomy, University of Firenze, Via Carrara 1, Sesto Fiorentino, 50019 Firenze, Italy

### Deadline for manuscript submissions

closed (29 February 2020)



## Materials

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/24165](https://mdpi.com/si/24165)

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

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





# Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

---

### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

---

### 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, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q1 (Condensed Matter Physics)