



## Functional Ceramics: From Fundamental Research to Applications

Guest Editors:

**Prof. Dr. Chien-Min Cheng**

**Prof. Dr. Kai-Huang Chen**

**Dr. Chih-Lung Tseng**

Deadline for manuscript  
submissions:

**31 October 2024**

### Message from the Guest Editors

Dear Colleagues,

Functional ceramics have gradually gained importance in recent years; these interesting materials have been used in electronic devices in many important applications. Functional ceramics is an applied science that studies the design, material composition, material properties, and applications of substances and devices made of functional ceramics. Electronic semiconductor devices and optical coatings are the main applications of functional ceramic thin-film technology today. This technology has a wide range of applications. Much research has used different thin films for computer storage devices, pharmaceuticals, manufacturing thin-film batteries, dye-sensitized solar cells, and more. Due to the relatively high hardness of ceramic materials, such films are used to protect substrates from corrosion, oxidation, and wear. The Special Issue on functional ceramics presents the growth, characteristics, and applications of nanostructured thin films in various domains. We invite contributions from leading groups in the field with the aim of giving a balanced view of the current state of the art in this discipline.





an Open Access Journal by MDPI

## Editor-in-Chief

## Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

## 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, dblp, and other databases.

**Journal Rank:** JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q2 (*Mechanical Engineering*)

## Contact Us

---

*Micromachines* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/micromachines](http://mdpi.com/journal/micromachines)  
[micromachines@mdpi.com](mailto:micromachines@mdpi.com)  
[X@micromach\\_mdpi](https://twitter.com/micromach_mdpi)