

## Special Issue

# Micro/Nano-Machining: Fundamentals and Recent Advances

### Message from the Guest Editor

As represented by the manufacture of ultra-precision devices such as semiconductor integrated circuits and optical components, the importance of micro/nano-machining or material processing that incorporates chemical and heat or other effects has been increasing. The targets are not only the materials that have been conventionally used, but also the next-generation materials including nanomaterials. In addition, as represented by molecular simulations and SPM-based processes, there is a wide variety of methods for analyzing these machining or processing mechanisms. This Special Issue aims to collect a variety of high-quality research papers and review articles that focus on micro/nano-machining and related processing or simulation of various kind of engineering materials. I am looking forward to receiving your valuable articles.

---

### Guest Editor

Prof. Dr. Jun Shimizu  
College of Engineering, Ibaraki University, Hitachi 316-8511, Japan

---

### Deadline for manuscript submissions

closed (31 July 2022)



## Nanomaterials

---

an Open Access Journal  
by MDPI

---

**Impact Factor 4.3**  
**CiteScore 9.2**  
**Indexed in PubMed**



[mdpi.com/si/82312](https://mdpi.com/si/82312)

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

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





# Nanomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.3  
CiteScore 9.2  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

---

### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

---

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

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)