

## Special Issue

# Mass Production and Industrial Applications of Different Nanoparticles

### Message from the Guest Editor

About three decades ago, nanoparticles became a very attractive object for material science and physical and chemical research. Nowadays, nanoparticles of different materials, sizes, shapes, and morphology are used widely in different engineering and industrial applications. It is difficult to imagine modern biology, medicine, and pharmacy not using nanoparticles. Nanoparticles are also widely used in electronics, energetics, ecology (for solving environmental problems), and many other fields. Of course, for such engineering or even industrial applications, the scale of production necessary is not a micro amount, but rather in grams, kilograms, or even tons. In this Special Issue, we would like to discuss the papers that deal with the production of such macro amounts of different nanoparticles, as well as the engineering and industrial applications of different nanoparticles (with different sizes, shapes, and physical and chemical properties).

---

### Guest Editor

Dr. Alexander Pyatenko

National Institute of Advanced Industrial Science and Technology,  
Tsukuba Central 5, Tokyo, Japan

---

### Deadline for manuscript submissions

closed (31 October 2023)



**Nanomanufacturing**

---

an Open Access Journal  
by MDPI



[mdpi.com/si/131525](https://mdpi.com/si/131525)

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

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





## Nanomanufacturing

an Open Access Journal  
by MDPI



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



# About the Journal

## Message from the Editor-in-Chief

The capability to manipulate, assemble, and fabricate nano-objects have given rise to nanoscience, one of the most rich and interdisciplinary fields of research. In fact, mechanics, optics, magnetism, or electronics at the nanoscale strongly differ from their macroscopic counterparts, and thus several disciplines are necessary to study nanomaterials. This field's development parallels the technical advances that have made it possible to control matter at the nanoscale. Our journal, *Nanomanufacturing*, seeks to provide a forum for discussion and a platform to publish the latest results regarding the fabrication, manipulation, scalability, and eventual industrial production of miniaturized devices or objects. All of our articles are published with rigorous refereeing and open access.

## Editor-in-Chief

Prof. Dr. Candido Fabrizio Pirri

1. Department of Applied Science and Technology, Politecnico di Torino, C.so Duca degli Abruzzi 24, 10129 Turin, Italy

2. Center for Sustainable Future Technologies, Italian Institute of Technology, Via Livorno 60, 10144 Turin, Italy

## Author Benefits

### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 39.8 days after submission; acceptance to publication is undertaken in 9.6 days (median values for papers published in this journal in the first half of 2025).

### Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and reviewer names published annually in the journal.