Special Issue

Intelligent Processing Technology of Materials

Message from the Guest Editor

The intelligent processing technology of materials is a valuable and interesting methodology used for simulating and controlling the processing of materials, which requires strong power to achieve the precise and efficient processing of high-performance components. The main purpose of this Special Issue “Intelligent Processing Technology of Materials” is to showcase the benefits of applying artificial intelligence, machine/deep learning, intelligent algorithms, and intelligent monitoring technology to the processing of materials. Different processing technologies of materials, such as high-precision machining, non-traditional machining, additive manufacturing, forming, and so on are all welcome. Potential research areas may include (but are not limited to) the following:

- Intelligent control systems;
- Model-based intelligent process optimizations;
- Machine/deep learning methods applied to the processing of materials;
- Intelligent monitoring and feedback technology;
- The intelligent optimization of processing parameters;
- Big data and cloud-based processing.

Guest Editor

Dr. Yanming Zhang

Gradual School of Engineering, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, Japan

Deadline for manuscript submissions

closed (20 November 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/199221

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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

About the Journal

Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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)

MDPI