

Special Issue

Advances in Materials Processing (3rd Edition)

Message from the Guest Editor

Since industrial development began, materials processing is central to the field of materials science and engineering, and is a vital step in manufacturing. Materials processing is an important process for realizing the structural features (e.g., crystal structure, microstructure, size, and shape) required for the product to perform well in the intended application by properly utilizing and designing the composition of a given material. Recently, trends in the high-tech industry are pushing toward miniaturization, the creation of products with complex shapes, and multi-functional materials. To keep up with ever-increasing demands, materials processing has been continuously advancing in terms of production, efficiency and performance qualification.

The main aim of the Special Issue is to discuss the topics of processing, manufacturing, structure/property relationship and applications in advanced materials. All of the single phase and alloy, and composite materials in metals, ceramics, and polymers are of interest.

It is our pleasure to invite you to submit a manuscript for this Special Issue.

Guest Editor

Dr. Hansang Kwon

Department of Material System Engineering, Pukyong National University, Busan 48513, Republic of Korea

Deadline for manuscript submissions

closed (20 July 2025)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/202854

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)