Special Issue

Design, Process and Adoption of New Materials for Additive Manufacturing

Message from the Guest Editor

The potential of additive manufacturing (AM) to revolutionize the production process across various platforms, from aerospace to biomedical engineering, continues to reach new heights. It further reshapes the modern industry's transformative approach to designing and developing new materials. The development of these materials for AM is expected to enhance its various application-oriented performance, sustainability, and cost-effectiveness. We encourage researchers to submit manuscripts that focus on, but are not limited to, the following areas:

- Novel material formulations and their unique properties;
- Functional gradient materials;
- Biomaterials;
- High-entropy alloys;
- Theoretical and computational models that predict material behavior;
- Sustainable and eco-friendly materials and practices;
- High-performance polymers;
- Composite materials.

This Special Issue aims to be a comprehensive resource, fostering collaboration and knowledge sharing among researchers, engineers, industry, and academic professionals. It seeks to explore the design, synthesis, and processing of new materials tailored for AM, including metals, polymers, ceramics, and composites.

Guest Editor

Dr. Wei Li

Department of Mechanical Engineering, University of Texas at Dallas, Richardson, TX 75080, USA

Deadline for manuscript submissions

closed (20 August 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/207112

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 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)