Special Issue

State of the Art in Materials for Additive Manufacturing

Message from the Guest Editor

Additive manufacturing (AM), also known as 3D printing, has advanced significantly in recent years. The advancements in AM have often been coupled with materials' development, especially as AM has been proven to be viable in processing established materials for conventional manufacturing processes. Furthermore, many materials which were previously challenging to fabricate have been shown to be viable using 3D printing.

In this Special Issue, state-of-the-art reviews and current research results which focus on new materials for AM will be reported. This includes, but is not limited to, new alloys, composites, polymers, and concrete, conductive, magnetic, and smart materials. Submissions related to novel applications, designs, processes, or characterization methods for such materials are also welcomed.

Contributions focused on the following topics are of particular interest:

Novel materials for AM;
New processes using AM;
New applications in 3D printing;
Characterization techniques for 3D-printed materials;
Standards and quality control in materials for 3D printing.

Guest Editor

Dr. Swee Leong Sing

Department of Mechanical Engineering, National University of Singapore, Singapore 117575, Singapore

Deadline for manuscript submissions

closed (20 December 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/165491

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

MDPI

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)