



materials



an Open Access Journal by MDPI

Advances in 3D Printing/Additive Manufacturing Technology of Materials

Guest Editor:

Dr. Jong-Ho Shin

Department of Industrial
Engineering, Chosun University,
Gwangju, 61452, Republic of
Korea

Deadline for manuscript
submissions:

closed (20 May 2024)

Message from the Guest Editor

Three-dimensional printing/additive manufacturing, a transformative approach to industrial production, enables the creation of complex physical objects from digital design files. Recent 3D printing/additive manufacturing technology highlights the evolution in material diversity, featuring an array of metals, polymers, and composite materials tailored for enhanced functional attributes. It also has focused on improvements in printing precision and resolution, and has been critical for sectors that demand extreme accuracy, such as biomedical applications and aerospace engineering. The technology's contributions include reducing the time and cost of production; enabling rapid and cost-effective customization that was previously unfeasible; and illuminating the path towards sustainable manufacturing through material efficiency and minimized waste. This Special Issue aims to discuss these advances in order to open up new possibilities in a variety of industries and address ongoing challenges and future perspectives.



mdpi.com/si/188630

Special Issue



an Open Access Journal by MDPI

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

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.

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 & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)