



*materials*



an Open Access Journal by MDPI

## Additively Manufactured Metallic Materials

Guest Editors:

**Prof. Ali Fatemi**

University of Memphis

**Dr. Nam Phan**

Structures Division, U.S. Naval Air  
Systems Command (NAVAIR)

Deadline for manuscript  
submissions:

**closed (30 April 2020)**

### Message from the Guest Editors

Dear colleagues,

Additive manufacturing has recently gained much popularity in both the research and application communities due to the many advantages it offers, as compared to conventional subtractive manufacturing techniques. These include the ability to fabricate net-shaped complex geometries, integration of multiple parts, on-demand fabrication, and efficient raw material usage, among other benefits. However, characteristics of the powder feedstock, variations in the large number of process parameters and scan strategy used, as well as the part geometry and postprocess treatment(s) can result in a broad range of microstructures, internal and surface defects, anisotropy, residual stresses, and, consequently, performance. This Special Issue covers these topics and focuses on the process–structure–performance relationships of additive manufactured metals.



[mdpi.com/si/33749](https://mdpi.com/si/33749)

# 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](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)