



Additive Manufacturing of Magnetic Material

Guest Editors:

Prof. Dr. Christof Sommitsch

Institute of Materials Science,
Joining and Forming, Graz
University of Technology,
Kopernikusgasse 24, A-8010 Graz,
Austria

Prof. Dr. Sophie Rivoirard

CNRS/Institut Néel, 25 avenue
des martrrs, 38042 Grenoble,
France

Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editors

Dear Colleagues,

Additive manufacturing (AM) is a very promising process for producing near-net shape and very complex components. So far, it has mainly been applied for structural materials. However, it is also of great interest for functional, e.g., magnetic, materials. The latter receive growing focus in different areas, such as electrical machines and vehicles, electronics, computers, telecommunication, wind turbines, etc.

In this Special Issue, we deal with different AM processes of magnetic materials taken from soft magnetic materials (metallic compounds, oxides, and composites), magnetic high-entropy alloys, magnetic shape-memory alloys, and multiferroic materials as well as hard magnetic materials (e.g., ferrites, alnico, rare earth-based magnets, Cr-Co alloys, etc.). In addition, related topics, i.e., post-treatment, sensor integration, component/material testing, material analysis, and process modelling and simulation are very welcome for this Special Issue.

To find more information, please click this [link](#).





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science
and Engineering, College of
Engineering & Applied Science,
University of Wisconsin-
Milwaukee, 3200 N. Cramer
Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation
Center of Materials Genome
Engineering, State Key
Laboratory for Advanced Metals
and Materials, University of
Science and Technology Beijing,
30 Xueyuan Road, Beijing 100083,
China

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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)**, **Inspec**, **CAPLUS / SciFinder**, and **other databases**.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q1 (*Metals and Alloys*)

Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 26
4052 Basel, Switzerland

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

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/X@Metals_MDPI)