metals

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 5.3

Additively Manufactured Alloys: Process, Microstructure and Properties

Guest Editors:

Prof. Dr. Yongho Sohn
College of Engineering & Computer Science, University of Central Florida, Orlando, FL 32816, USA

Dr. Le Zhou
Opus College of Engineering, Marquette University, 1515 W. Wisconsin Ave., Milwaukee, WI 53233, USA

Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editors

Additive manufacturing (AM) for metallic alloys represents a technological platform to produce the customized, on-demand, and even on-site production of engineering components. Moreover, it presents an opportunity to design and develop new and/or modified metallic alloys that can desensitize inherent AM process variables and take advantage of unique thermo-kinetic environments which can lead to novel microstructure and properties. We would like to invite your contribution to add to the rapidly expanding body of knowledge that would establish the fundamental processing-structure-properties relations in additively manufactured metallic alloys. We seek contributions that elucidate the AM process optimization, detailed microstructural analysis and assessment of properties such as mechanical and other functional properties. This Special Issue would help to establish a new paradigm in advanced materials development with built-in component manufacturing considerations by utilizing the AM technology as tools to rapidly produce, characterize and assess metallic alloys.

metals

IMPACT FACTOR 2.5

CITESCORE 5.3

an Open Access Journal by MDPI

Editor-in-Chief

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 Editor-in-Chief

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, Ei Compendex, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/metals
metals@mdpi.com
𝕏@Metals_MDPI