metals

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 5.3

Research on Microstructure and Mechanical Properties of Additively Manufactured Metals and Alloys

Guest Editors:

Prof. Dr. Gregory John Gibbons
WMG, International Manufacturing Centre, University of Warwick, Coventry CV4 7AL, UK

Dr. Hiren R. Kotadia
School of Engineering, Faculty of Engineering and Technology, Liverpool John Moores University, Liverpool L3 3AF, UK

Dr. Geoff D. West
WMG, University of Warwick, Coventry CV4 7AL, UK

Deadline for manuscript submissions:
closed (30 May 2024)

Message from the Guest Editors

Metals Additive Manufacturing (AM) is a rapidly growing manufacturing capability. The cumulative annual growth of AM is predicted to exceed 20% CAGR for many years to come, reaching $11.9bn in 2019 and expected to rise to over $63bn by 2025. The metals (AM) market is particularly buoyant, rising 41% CAGR over 2010-2014. The current metal AM market is over £330m, with increasing application in aerospace & defence industry. In these high-value, and often safety critical applications, the quality of the material is of upmost importance, and there is a concerted research effort in understanding the fundamental phenomena in the microstructural development in AM processed metals, and the effect of these microstructures on their performance in end-use applications. For this Special Issue in Metals we welcome reviews and articles in the area of microstructure and mechanical properties of Additively Manufactured metals and 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