

## Special Issue

# Additive Manufacturing of Metals

### Message from the Guest Editor

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 \$9 billion in 2017 and expected to rise to over \$63 billion by 2025. The metals (AM) market is particularly buoyant, rising 41% CAGR over 2010–2014. Current metal AM service market is £100 m, projected to reach £590 million by 2020 (CAGR of 31.5%), with increasing application in the aerospace and defense industry. Despite this remarkable rate of growth, there are significant challenges that are limiting the wider uptake and exploitation of metals AM, spanning across the entire metal AM supply chain. These include a lack of AM design and modelling skills and software, a gap in understanding in properties obtained from different machines and technologies, and an incomplete understanding of the causes of part quality variation and their effect on part failure. For this Special Issue in *Metals* we welcome reviews and articles in the areas of material supply, part design, process modelling, process technology, post-processing techniques and applications of metals AM.

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### Guest Editor

Prof. Dr. Gregory John Gibbons

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### Deadline for manuscript submissions

closed (31 December 2019)



## Metals

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## About the Journal

### 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.

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### Editors-in-Chief

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#### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).