



## Constitutive Modelling for Metals

Guest Editors:

**Prof. Dr. Robertt Valente**

Department of Mechanical Engineering, Universidade de Aveiro, Aveiro, Portugal

**Prof. Dr. Myoung-Gyu Lee**

Department of Materials Science and Engineering, Seoul National University, Seoul 08826, Republic of Korea

Deadline for manuscript submissions:

**closed (31 March 2019)**

### Message from the Guest Editors

In a world facing constant technological evolution, and where a circular economy represents the dominant paradigm, the optimized use of raw materials with the lowest energetic impact is a strong (and increasingly important) requirement. Together with this rational use of resources, structural requirements for final products are a key factor for materials science and mechanical engineers. To this aim, physically-consistent, reliable and computationally-efficient constitutive modelling is the cornerstone of an efficient design.

Within this Special Issue on "Constitutive Modelling for Metals", we aim to provide a wide visibility for the most up-to-date and relevant works in this field, from both experimental and modelling/numerical simulation standpoints.





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

[mdpi.com/journal/metals](http://mdpi.com/journal/metals)  
[metals@mdpi.com](mailto:metals@mdpi.com)  
[X@Metals\\_MDPI](#)