



*metals*



an Open Access Journal by MDPI

## Advances in Plastic Deformation Technologies

Guest Editors:

**Dr. Igor Bobrovskij**

Togliatti State University,  
Tolyatti, Russian Federation

**Prof. Dr. J. Antonio Travieso-Rodriguez**

Department of Mechanical  
Engineering, Universitat  
Politécnica de Catalunya, 08019  
Barcelona, Spain

Deadline for manuscript  
submissions:

**closed (18 January 2023)**

### Message from the Guest Editors

Advanced finishing technologies play a key role in automotive, aerospace, and biomedical industries and are an integral part of mechanical engineering. One of the most important groups of finishing technologies is based on plastic deformation. A number of important issues are still to be addressed: How can we increase productivity and lower the production costs while maintaining the high quality of products? How can we make use of the plastic deformation in the processing of products obtained using additive technologies? What are the best materials to be used in the design of instruments? Answering these questions is critically important for gaining insightful understanding of both new processes such as, incremental plastic deformation, shoot peening, nano-burnishing, wide burnishing, and low plasticity burnishing, as well as traditional ones such as extrusion, drawing, and bending. The number of articles on plastic deformation in the mainstream international journals is steadily growing, and we hope that our esteemed colleagues, will make further important contributions to this quickly growing field with your high-quality research articles, communications and reviews.



[mdpi.com/si/54197](https://mdpi.com/si/54197)

# Special Issue



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, Ei Compendex, CAPus / 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](https://twitter.com/X@Metals_MDPI)