

# Special Issue

## Kinetic Surface Treatments

### Message from the Guest Editors

Processes and treatments able to modify the properties of the free surface of a solid body are gaining ever-increasing attention, both in academia and in the industrial world. This is due to the importance of the surface in determining the overall properties of manufactured parts, and to the possibility of creating functional and multifunctional surfaces and coatings, through application of adapted surface treatments. These processes are very promising from different points of view; to mention a few, they are less energy demanding, do not have toxic residuals, can be applied to temperature-sensitive materials, and generally promote higher production rates. This Special Issue aims to cover the modelling, design and characterization of surfaces and material treated by kinetic surface treatments (including cold spray, severe shot peening, SMAT, surface burnishing and many others) are welcome. In particular, high quality articles addressing technological advancements and new treatments, new fields of applications, application to new materials, advanced characterization methods and review articles are strongly encouraged.

---

### Guest Editors

Prof. Dr. Mario Guagliano

Department of Mechanical Engineering, Politecnico di Milano, Via La Masa 1, 20156 Milano, Italy

Dr. Sara Bagherifard

Department of Mechanical Engineering, Politecnico di Milano, Via La Masa, 1-20156 Milano, Italy

---

### Deadline for manuscript submissions

closed (31 March 2018)



## Metals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3

---



[mdpi.com/si/9972](https://mdpi.com/si/9972)

*Metals*

Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metals@mdpi.com](mailto:metals@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[metals](https://mdpi.com/journal/metals)





# Metals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/journal/  
metals](https://mdpi.com/journal/metals)



## About the Journal

### 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.

---

### 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

---

### Author Benefits

#### 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)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 18 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 2025).