

Special Issue

Plasmas Processes Applied on Metals and Alloys

Message from the Guest Editors

Plasma technology is a versatile tool for materials processing. The ability to deposit and modify materials provides many practically useful functions to materials processing and thin film deposition. Plasma technology has been extensively used in thin film depositions, surface modification, substrate cleaning, materials cutting, and metallurgy, etc. To support the continuing development of this fast-growing research topic, we have organized a Special Issue of *Metals* to invite researchers worldwide to showcase their research results. Regular length papers, short communications and review articles on plasma technology applied to metals, alloys, and high conductivity materials such as carbonaceous materials are invited. Topics of interest include, but are not limited to, the following:

- Plasma coatings
- Plasma surface modifications
- Plasma-enhanced chemical vapor deposition (PECVD)
- Sputtering
- Atmospheric pressure plasma
- Dielectric barrier discharge
- Microplasmas
- Plasma spray
- Plasma cutting
- Plasma metallurgy

Guest Editors

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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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).