Special Issue

Wear- and Corrosion-Resistant Cermet Coatings

Message from the Guest Editor

Cermet coatings deposited on metallic components have attracted tremendous attention owing to their capability of protecting the substrate from surface wear and corrosion. In the past decades, various coating materials including carbides-, nitrites- and oxide-based cermets; advanced fabrication techniques, such as thermal/cold spraying, PVD/CVD, laser cladding, and plasma transferred arc surfacing; as well as many post-treatment processes, have been developed. However, with the increasing demand on metallic materials applied to extreme environments, e.g., elevated temperature, oxidative atmosphere, strong impact, and abrasive conditions, it is very necessary to look for breakthroughs in current coating materials or viable alternatives. For this Special Issue, we invite high-quality contributions with innovative and significant findings and experiences in the field of cermet coatings. The topics of interest include, but are not limited to, the above-mentioned aspects. Some bulk cermet materials that have excellent mechanical properties and can potentially be used for resisting wear and corrosion are welcomed as well.

Guest Editor

Dr. Haibin Wang

Faculty of Materials and Manufacturing, Key Laboratory of Advanced Functional Materials, Ministry of Education of China, Beijing University of Technology, Beijing 100124, China

Deadline for manuscript submissions

closed (31 October 2023)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/105099

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/metals

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

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, CAPlus / 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 18.7 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).

MDPI