

Special Issue

Decision-Making Methods and Sustainable Development: Metal Oxides for Energy Production, Environmental Remediation and Resource Efficiency

Message from the Guest Editors

Metal oxide materials, both in bulk and nanostructured forms, exhibit a variety of functional properties and play a crucial role in many applications, such as energy production, catalysis, sensing, environmental remediation, corrosion protection, among others. This Special Issue is devoted to the modeling and synthesis of advanced metal oxides, composites and nanostructures obtained by sustainable processes. The Special Issue will also consider advanced analytical methods of processing information, such as machine learning, neural networks, fuzzy logic, factor analysis, etc. The overarching aim of this Special Issue is to present research studies which discuss the recent advances in the field of metal oxides and metal oxide nanostructures of interest to the global industry and with reduced environmental impacts.

Guest Editors

Dr. Alexey Mikhaylov

Financial University under the Government of the Russian Federation, Moscow, Russian

Dr. Maria Luisa Grilli

ENEA-Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Rome, Italy

Deadline for manuscript submissions

closed (30 April 2023)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/128650

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

[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, 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).