



symmetry



an Open Access Journal by MDPI

Advances in Metal Materials and Symmetry/Asymmetry

Guest Editors:

Dr. Zeran Hou

School of Mechanical
Engineering, Tongji University,
Shanghai 201804, China

Dr. Yong Hou

Institute of Forming Technology
and Lightweight Components, TU
Dortmund University, Dortmund,
Germany

Dr. Tao Zhou

Department of Materials Science
and Engineering, KTH Royal
Institute of Technology, SE-100
44 Stockholm, Sweden

Deadline for manuscript
submissions:

closed (30 November 2025)

Message from the Guest Editors

Dear Colleagues,

This Special Issue explores the intricate relationship between symmetry/asymmetry and the properties of metal materials, a crucial aspect in materials science and engineering. Symmetry and asymmetry, from crystal structures to macroscopic textures, play a pivotal role in determining material behavior, including mechanical strength, thermal conductivity, and corrosion resistance. We invite original research contributions that delve into the theoretical and practical implications of symmetry/asymmetry in metal materials, aiming to advance the development of innovative materials with enhanced performance.

Dr. Zeran Hou

Dr. Yong Hou

Dr. Tao Zhou

Guest Editors



mdpi.com/si/215844

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei Odintsov

ICREA, 08010 Barcelona and
Institute of Space Sciences (IEEC-
CSIC), C. Can Magrans s/n, 08193
Barcelona, Spain

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
X@Symmetry_MDPI