Special Issue

Advances in Surface Modifications of Metallic Materials

Message from the Guest Editors

Surface modification plays a crucial role in enhancing the practical performance of metallic materials, such as preventing premature mechanical failures, enhancing electrical conductivity, achieving controllable tribology behaviour, boosting corrosion resistance, improving biocompatibility, etc., enabling them to meet the growing challenges posed by industries. The purpose of this Special Issue, entitled “Advances in Surface Modifications of Metallic Materials”, is to compile research on various surface modification techniques, including severe plastic deformation treatment, surface manufacturing, introducing layers or coatings, and other innovative techniques. In addition, it aims to explore and investigate the relationship between processing, modified surface microstructure, performance, and the environmental conditions in which a material is intended to be utilized through experimental, simulation, or combined methods. Lastly, this Special Issue intends to provide guidelines and strategies for improving the performance of metallic materials for practical applications, benefiting both academic and industrial communities.

Guest Editors

Dr. Wenbo Wang

Dr. Auezhan Amanov

Dr. Zhengwu Fang

Deadline for manuscript submissions

20 August 2025

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/si/203192

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

mdpi.com/journal/crystals

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/journal/crystals

MDPI

About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Crystallography) / CiteScore - Q2 (Condensed Matter Physics)