

Special Issue

Advances in Metal Matrix Composites (Second Edition)

Message from the Guest Editor

Metal matrix composites (MMCs) are composed of ductile metals reinforced with a variety of stiff ceramic particles or fibers. Due to their excellent mechanical and physical properties, MMCs have attracted great attention in the applications of the automobile and aerospace industries. However, fabricating advanced MMCs still encounters challenges, such as choosing suitable reinforcements, achieving good dispersion with strong interfacial bonding, and realizing large-scale production. Recently, many methods, including (1) utilization of low-dimensional reinforcements such as graphene or carbon nanotubes, (2) development of new manufacturing technologies such as additive manufacturing, (3) establishment of multi-scale strengthening systems, etc., have been attempted to improve the comprehensive performances of MMCs.

This Special Issue titled “Advances in Metal Matrix Composites (Second Edition)” aims to collect state-of-the-art research on advanced MMCs.

Guest Editor

Prof. Dr. Ismail Özdemir

Materials and Surface Engineering Group, Chemnitz University of Technology, Erfenschlager Str. 73, 09125 Chemnitz, Germany

Deadline for manuscript submissions

closed (15 January 2026)



Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



mdpi.com/si/203456

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

[mdpi.com/journal/
crystals](https://mdpi.com/journal/crystals)





Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



[mdpi.com/journal/
crystals](https://mdpi.com/journal/crystals)



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)