Special Issue

Design and Fabrication of Functional Thin Films

Message from the Guest Editors

Functional thin films are of great interest due to their exploitation in many advanced areas: energy storage and conversion, machinery manufacturing, environmental protection, healthcare, sensors and actuators, modern electronics, photonics, wearable electronics, etc. In particular, as a new type of high-tech material with high development and utilization rate, crystal thin films have important research and application value. This Special Issue aims to present a collection of articles describing recent advances in crystalline functional thin film manufacturing technology. We are particularly interested in papers focused on surfaces, coatings, and freestanding architectures with specific surface functionalities. The content encompasses materials growth and structure; fundamentals of operation; design of novel materials; production, processing, and integration into products and devices; and characterization of advanced functionality and sustainable development for a range of applications.

Guest Editors

Dr. Fangyuan Gao
Institute of Mechanics, Chinese Academy of Science, Beijing 100190, China

Dr. Yi Xu
Institute of Mechanics, Chinese Academy of Science, Beijing 100190, China

Deadline for manuscript submissions

closed (8 February 2024)

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/si/161281

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)