Special Issue

Structure, Properties, and Applications of Nanomaterials and Thin Films

Message from the Guest Editor

Nanomaterials and thin films have emerged as key components in the advancement of numerous cutting-edge technologies, ranging from electronics and photonics to energy storage, sensing, and biomedical applications. Their unique structural, chemical, mechanical, and electronic properties, enabled by nanoscale phenomena and interface effects, continue to drive innovation across both fundamental research and industrial applications. Recent progress in the synthesis, characterization, and theoretical modeling of nanomaterials and thin films has opened new pathways for tailoring their properties and unlocking multifunctional capabilities. This Special Issue, titled "Structure, Properties, and Applications of Nanomaterials and Thin Films", aims to highlight recent advances and novel findings in this dynamic field. We invite contributions that explore innovative fabrication techniques, fundamental physical and chemical properties, interface phenomena, and practical implementations. By bringing together the latest developments, this collection seeks to foster interdisciplinary dialogue and stimulate future research directions.

Guest Editor

Dr. Irina Negut

"Laser-Surface-Plasma Interactions" Laboratory, Lasers Department, National Institute for Lasers, Plasma and Radiation Physics, Institute of Atomic Physics, P.O. Box MG-36, RO-77125 Magurele, Romania

Deadline for manuscript submissions

25 October 2025

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/si/239135

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

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)