

Special Issue

Functional Thin Films: Growth, Characterization, and Applications

Message from the Guest Editors

The objective of this Special Issue is to collect high-quality research and review articles focusing on the design, fabrication, deposition, characterization, and application of functionalized thin films. Contributions may address, but are not limited to:

- Functional and functionalized films of various material types with different electronic conductivity, including metals, semiconductors, insulators, and others;
- Two-dimensional layered materials, MXenes, polymers, and hybrid thin films;
- Deposition of 2D and 3D layers;
- Novel deposition and functionalization techniques;
- Surface functionalization and interface engineering;
- Computational approaches for predicting thin film and heterostructure properties;
- Thin films and devices for applications in energy conversion and storage, sensing, catalysis, and biomedicine.

We warmly invite you to contribute to this Special Issue and share your latest research results with the broader community working on functional thin film materials.

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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

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