

Special Issue

Electrochemical Preparation of Magnetic Materials

Message from the Guest Editors

We are excited to announce a Special Issue dedicated to recent advances in the synthesis, characterization, and function evaluation of materials prepared using electrodeposition, with particular emphasis on their magnetic and electric properties. Electrodeposition is a versatile cost-effective technique, allowing for the fabrication of either smooth or rough coatings, sponge-like materials, or powders of various sizes and size distributions, suitable for devices that are used for energy storage, sensing, spintronics, and electronics. Electrodeposition parameters impact the chemical composition, morphology, crystallinity, and microstructure of deposits—key parameters that directly affect their electrical and magnetic properties. The aim of this Special Issue is to bring together interdisciplinary research from materials science, electrochemistry, and condensed matter physics in order to provide a comprehensive overview of the recent achievements of this growing field. Furthermore, we anticipate that this Special Issue will inspire further innovation in the design of electrochemically engineered functional materials.

Guest Editors

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Deadline for manuscript submissions

20 December 2026



Crystals

an Open Access Journal
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Impact Factor 2.4
CiteScore 5.4



mdpi.com/si/258772

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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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