

## Special Issue

# MXene-Based Nanocomposites for Energy Storage Applications

### Message from the Guest Editors

We are delighted to announce an upcoming Special Issue in the journal "Crystals", focusing on the innovative field of MXene-based nanocomposites and their applications in energy storage. As the demand for more efficient, robust, and scalable energy storage solutions continues to grow, MXenes have emerged as a prominent class of materials, offering remarkable electrical conductivity, mechanical strength, and electrochemical properties. This Special Issue seeks to explore the latest advancements in MXene-based nanocomposites, highlighting their synthesis, functionalization, and application across various forms of energy storage systems. We invite original research papers, reviews, and short communications that provide new insights into the structural, electrochemical, and physicochemical properties of MXene-based materials. Contributions may address, but are not limited to, the following: novel synthesis techniques, surface engineering, hybrid material design, and the integration of MXenes with other functional materials. We look forward to your contributions to this cutting-edge topic that advance the frontiers of energy storage technology.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 December 2024)



## Crystals

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CiteScore 5.0



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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.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli  
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