Special Issue

Crystalline Materials for Energy Storage

Message from the Guest Editors

This Special Issue entitled “Crystalline Materials for Energy Storage” aims to explore recent advances, fundamental insights, and innovative applications of crystalline materials in energy storage technologies. This includes focusing on the design, synthesis, characterization, and performance evaluation of crystalline materials used in batteries, supercapacitors, and other energy storage devices. Topics of interest include, but are not limited to, the following:

- Crystalline electrode and electrolyte materials for lithium-ion, sodium-ion, and beyond.
- Structural engineering of crystalline materials to enhance energy density, rate capability, and lifespan.
- Novel synthesis methods for crystalline energy storage materials.
- In situ and ex situ characterization techniques to understand charge/discharge mechanisms.
- Computational modeling of crystalline structures related to energy storage performance.
- Integration of crystalline materials into practical energy storage devices and systems.
- Stability, durability, and safety aspects of crystalline energy materials.
- Flexible and wearable energy storage devices utilizing crystalline materials.
- Thin-film supercapacitors based on crystalline frameworks.

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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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