

# Special Issue

## Structure Property Relationship of Energy Storage Materials

### Message from the Guest Editors

Electrochemical storage is nowadays omnipresent in our society, and needs are continuously rising, pushing the research community to constantly improve and explore new materials and propose innovative devices that offer better efficiency and greater security at moderate costs.

The present Special Issue will focus on the impact of Crystallography on the design of electrode and electrolyte materials for rechargeable Li-ion batteries and beyond (Na ion, Mg ion, metal-air, all-solid-state batteries...). The relationship between crystal structure and properties will be explored. Manuscripts presenting studies of the following topics are highly welcome: (i) synthesis, crystal structure analysis and characterization of transport properties; (ii) multiscale-ion dynamics and diffusion pathways; (iii) electrochemical performance and stability; (iv) in situ neutrons and X-ray diffraction and in situ transmission electron microscopy of energy storage materials. It is my pleasure to invite you to submit a manuscript (full paper, communication, or review) for the Special Issue, “Structure Property Relationship of Energy Storage Materials”.

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### Guest Editors

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# Crystals

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### Deadline for manuscript submissions

closed (24 February 2023)



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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

Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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