Special Issue

Symmetry in Electrode Materials: Structure, Properties and Applications

Message from the Guest Editors

Symmetry in electrode materials is a central concept that connects the atomic and crystalline structure of devices such as batteries, supercapacitors, and electrochemical cells with their electrochemical properties and functional performance. The symmetry in electrode materials directly determines how they function and how efficient electrochemical devices can be.

This Special Issue is dedicated to understanding the influence of the symmetry of materials for electrodes, studying their design and structure, evaluating of their properties, and propsing new applications. This Special Issue will accept studies focused on the development of new systems, characterization methods, and existing technologies through innovative approaches. Multidisciplinary research is of particular interest. This collection will include works focused on the development of materials, methods, techniques, and applications that are environmentally friendly and have a circular economy approach. We aim to show the connection between the fundamental structure of matter and practical solutions to current energy problems, making the development of more efficient, durable, and sustainable technologies possible.

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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