

Special Issue

Symmetry Considerations for Ferroelectric Materials and Flexoelectricity

Message from the Guest Editor

Ferroelectrics are inseparable from symmetry breaking. In these and other related materials symmetry plays important role for the interpretation of observed phenomena, and enables their use in devices such as memory and reconfigurable electronics. This Special Issue invites you to submit original research works, review articles, and short communications related to symmetry considerations for ferro-, antiferro-, piezo-, pyro-, and flexo-electricity, as well as other related effects. The impact of material's symmetry as well as symmetry of defects, boundary conditions and applied stimuli on structure, properties and dynamics are of interest. This special issue aims to promote knowledge exchange for this important scientific direction, building at the intersection of physics, mathematics, and materials science.

Guest Editor

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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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