



symmetry



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Symmetry in Inorganic Crystallography and Mineralogy

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Message from the Guest Editor

Dear Colleagues,

I kindly invite you to participate in a Special Issue of *Symmetry* dedicated to symmetry in inorganic crystallography and mineralogy.

The concept of symmetry is one of the most fundamental and general ideas of physics and natural science. Crystallography is not an exception. Symmetry describes the regularity in crystal structure construction and their properties at both macroscopic and atomic levels. Symmetry is a base for the definition of space groups and their interconnections. Nowadays, the combination of modern X-ray diffraction studies such as single crystal and powder X-Ray diffraction analysis, thermal x-ray analysis, etc., allows us to determine the symmetry and space groups of crystals and to observe symmetry changes in the process of solid state transformations under increasing or decreasing temperature. The symmetry determination of crystal structures of minerals within different polymorph modifications could be important for understanding their genesis and its correlation with chemical composition and physical properties.



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Special Issue



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Editor-in-Chief

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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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