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Chemical Symmetry Breaking

Guest Editor:

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Message from the Guest Editor

Dear colleagues,

Nowadays, a concept of the nonlinear complexity theory is recognized to govern a variety of dynamic behaviors observed in both natural and social sciences. In the 'non-equilibrium (or out-of-equilibrium) complexity system', symmetry-breaking occurs easily in concert with a phase transition of a chaotic or dissipative state to another one. In other words, fluctuation in a non-equilibrium state induces a phase transition to trigger the symmetry-breaking, and eventually the nonlinear amplification of fluctuation leads to dissymmetric circumstances.

This Special Issue is devoted to investigations on the various chemical phenomena which originate from the symmetry-breaking induced by a phase transition in the condensed phases such as metastable crystals, liquid crystals, amorphous solids and polymer materials under non-equilibrium conditions, including other mysterious or strange chemical phenomena which need the elucidation of mechanism in the near future and theoretical calculations such as determination of anisotropic organic crystal structures by computer simulations using various algorithm, etc.

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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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