

Special Issue

Symmetry in Catalytic Processes

Message from the Guest Editors

Chiral compounds play an integral role in chemical engineering, industry, medicine, food, and our life systems. For many applications of chiral compounds, the racemic forms will no longer be accepted. As a consequence, enantioselective synthesis in general, and of enantioselective catalysis in particular, has become more important. Asymmetric catalysis is among the most important issues in chemical synthesis, not only at an academic level, but also in the field of the industrial production of fine chemicals, given that catalytic enantioselective transformations are very often key steps in the preparation of fragrances, pharmaceuticals, and agrochemicals. In an asymmetric catalytic process, chiral information is transferred to the substrate. The aim of this Special Issue is to advance the knowledge on the rational design of homogeneous or heterogeneous asymmetric catalysts, phase transfer catalyst and immobilized complexes or enzymes, kinetic resolution, symmetric/asymmetric catalyzed reaction systems, etc.

Guest Editors

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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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