

Special Issue

Symmetry in Acid-Base Chemistry

Message from the Guest Editor

Dear Colleague, Symmetry plays a pivotal role in the permanently moving Univer and also in the continuously progressing life on the Earth. It can be found in the macro- and microworlds of plants, animals, and humans. Symmetry exists in human nature, and it reveals itself in human products of different constructive and artworks, as well as in scientific theories and laws. In acid-base chemistry, the symmetry concept has been introduced in structural studies on chemical compounds possessing an acid, base, or amphoteric character, and additionally in physicochemical, analytical, and spectroscopic investigations on their acid-base properties. Consequently, detailed analyses of internal (structural) and external (solvent) effects on these properties have led to formulating exciting structure–reactivity relationships that are very useful to design new mono- or polyfunctional molecules of desired acidity or basicity. They also help to understand the action of bioactive molecules and drugs in living organisms and to explain the mechanisms of various biochemical processes.

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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