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Applied Designs in Chemical Structures with High Symmetry

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Deadline for manuscript submissions:
closed (31 January 2020)

Message from the Guest Editors

Dear Colleagues,

This Special Issue, "Applied Designs in Chemical Structures with High Symmetry", is open for submissions and welcomes papers dealing with different orders of symmetry intrinsically present in chemical structures. Characterization of these structures helps to better understand the natural tendencies to stabilize matter into chemical compounds, as well as to further develop new classes of highly symmetric chemical compounds. Probably the best example is C60 fullerene (buckminsterfullerene), a purely synthetic form of carbon (but with recent findings of its occurrence in nature and in outer space) resembling the balls used in football. Applied designs may simply serve as tools for the in silico construction of chemical structures, as well as for the characterization of a structure, classification of a series of structures, as well as prediction of their properties (inside of an applicability domain with structure–property relationships).

Prof. Lorentz JÄNTSCHI
Dr. Beata SZEFLER
Guest Editors

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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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