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Analytical and Computational Properties of Topological Indices

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Message from the Guest Editors

Dear Colleagues,

Although Topological Indices have played an important role in Mathematical Chemistry since the seminal work of Wiener in 1947, in recent years, this role has significantly increased. On the one side, molecular descriptors constitute an aid tool in Chemistry, especially in QSPR/QSAR investigations. On the other side, they have become an important part of some areas of Mathematics, as Graph Theory; this interest has been recognized in the 2020-version of the Mathematical Subject Classification by including two new areas: 05C09 - Graphical indices (Wiener index, Zagreb index, Randić index, etc.), and 05C92 - Chemical graph theory.

The aim of this Special Issue is to attract leading researchers in this area in order to include new results on these topics, both from a theoretical and an applied point of view.

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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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