

Special Issue

Symmetry Aspects in Quantum Computing

Message from the Guest Editor

Dear Colleague, Symmetry is a unifying concept in science and technology, its influence now extending to the flourishing field of quantum computing (QC). In fact, symmetry pervades all possible aspects of QC: formalisms, algorithms, circuits, calculations, and quantum computers. As a fast-evolving endeavor, QC challenges scientists to develop new concepts, formalisms, algorithms, and applications of symmetry theory. In this context, this Special Issue of *Symmetry* calls for theoretical and applied manuscripts on novel aspects of symmetry theory for QC. While manuscripts from all backgrounds are welcome, this issue highlights symmetry/QC developments relevant to general symmetry theory, quantum chemistry, quantum chemical dynamics, molecular physics, solid state physics, computer science, and computer engineering.

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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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