

Special Issue

Symmetry/Asymmetry in Condensed Matter Physics and Engineering Applications

Message from the Guest Editors

Recent rapid development of computational resources—both in terms of hardware and software—has made an enormous impact on the advances in the field of condensed matter physics as well as in various engineering applications. Especially, notable breakthroughs regarding Machine Learning (ML)—and, more broadly speaking, Artificial Intelligence (AI)—have enabled us to solve problems that we could not even imagine solving before. This has also led to the emergence of novel materials as well as new systems and phases, whose understanding requires novel approaches and new ideas. Symmetry/Asymmetry are fundamental concepts arising in nature, which manifest across physics and engineering. Research efforts considering those concepts are always modern and up-to-date, due to their universal relevance. By investigating symmetry/asymmetry, we can explore both established and emerging phenomena. This Special Issue of the journal *Symmetry* will focus on the interplay between the principles of symmetry/asymmetry and the fields of condensed matter physics and various engineering applications...

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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