

Advance Studies in Analytical Chemistry with Symmetry/Asymmetry

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Deadline for manuscript
submissions:

31 October 2024

Message from the Guest Editors

This Special Issue of *Symmetry* is dedicated to exploring various aspects of symmetry in materials, with a particular focus on symmetry and properties of materials, structural defects and their influence on symmetry, symmetry-breaking phenomena in crystals, and crystal engineering and design.

Authors are encouraged to explore the following areas:

1. Symmetry and properties of materials: Manuscripts discussing the relationship between symmetry properties and the physical or chemical properties of materials are welcomed.
2. Structural defects and their influence on symmetry: Contributions investigating how structural defects, such as vacancies, dislocations, or grain boundaries, impact the symmetry of materials are highly encouraged.
3. Symmetry-breaking phenomena in crystals: Manuscripts exploring symmetry-breaking phenomena in crystals are of interest, such as phase transitions, domain formation, or spontaneous symmetry breaking.
4. Crystal engineering and design: Research focusing on the intentional manipulation of crystal symmetry for the design and synthesis of novel materials is solicited.





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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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