

Special Issue

Symmetry and Advances in Inductively Coupled Plasma Mass Spectrometry: Applications in Health, Nutrition, and Environmental Research

Message from the Guest Editor

The study of symmetry–asymmetry relationships has become a central paradigm in understanding the link between trace elements or toxic elements with complex biological, nutritional, and environmental systems. Symmetry represents balance and stability in elemental and isotopic distributions, while asymmetry reflects deviations that may signal metabolic dysregulation, environmental contamination, or systemic vulnerability.

Within this framework, Inductively Coupled Plasma Mass Spectrometry (ICP-MS) provides one of the most powerful platforms to investigate symmetry–asymmetry phenomena. Its high sensitivity, multi-elemental coverage, and isotopic resolution allow for the precise detection of equilibrium states, subtle imbalances, and fractionation processes.

This Special Issue aims to highlight research and methodological innovations that employ ICP-MS not only as an analytical tool, but also as a bridge to explore how symmetry–asymmetry principles shape interpretations in health, nutrition, and environmental monitoring, strengthening the integration between analytical chemistry and life sciences.

Guest Editor

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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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