

## Special Issue

# Symmetry/Asymmetry in Sustainable Processes: Waste Valorization and Green Engineering Approaches

### Message from the Guest Editors

This Special Issue of *Symmetry* explores developments in sustainable and eco-friendly processes, with a focus on waste treatment and valorisation. Currently, it is crucial to develop innovative strategies that optimise waste utilisation and minimise environmental impact. Thus, this Special Issue highlights contributions that offer efficient and scalable solutions for sustainable resource management to foster a greener industry and a circular economy. This Special Issue, titled “Symmetry/Asymmetry in Sustainable Processes: Waste Valorization and Green Engineering Approaches”, welcomes original research and review articles on emerging technologies for waste treatment and/or waste conversion into high-value-added products, including catalytic and separation processes, with an emphasis on symmetry and asymmetry issues. Topics relating to symmetry-related problems include, but are not limited to, the following:

- Asymmetric catalysis in the treatment and valorization of waste and evaluation of the reaction pathway, selectivity, or yield in terms of the structural symmetry of the reactants and/or products...

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### Guest Editors

Dr. Pablo Gutiérrez-Sánchez  
Prof. Dr. Luis Fernando Bautista  
Prof. Dr. Gemma Vicente

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### Deadline for manuscript submissions

28 February 2027



## Symmetry

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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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### Editor-in-Chief

Prof. Dr. Sergei Odintsov  
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