Special Issue

Recent Advances in Process Symmetry for Biofuel Development

Message from the Guest Editors

This Special Edition aims to provide a space for research into various biotechnological processes and the challenges that researchers have been faced with when formulating efficient and environmentally friendly processes in the generation of biofuels, achieving symmetry in the design of the processes, and producing the mathematical modeling of the reactions involved. Topics focused on the development of catalysts that make the process of obtaining biofuels more efficient are also welcome to accelerate reactions and improve vields of the desired products, as well as the tools that allow evaluating the symmetric effects between processes. In the conventional production of biofuels, alkaline or acid catalysts are used, which can be harmful to human health and the environment. New trends could allow for more efficient and ecological production of biofuels, with high yields in the transesterification processes of fats and lipids. The effects of symmetry in the evaluation and modeling of reactions can improve the development of research in this field with more efficient and viable processes.

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.

Editor-in-Chief

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