

Special Issue

Symmetry in Biochemistry, Bioenergy and Catalysis: Topics, Advances and Applications

Message from the Guest Editors

Constant population growth and accelerated urbanization have led to a dramatically higher dependence on the agricultural sector, in which a huge amount of the waste biomass is generated. Agro-industrial plant and animal waste mostly remains underutilized and is a major cause of pollution... The present Special Issue aims to highlight novel approaches for the production of highly valued biochemicals, enzymes, proteins and other bio-based commodities from waste biomass from plants, animals and algae (micro and macroalgae). We will also consider manuscripts based on the importance of symmetry for the structural changes in the biomolecules during their extraction from the waste biomass and how it influences their nature, function, evolution and stability. The role of nanotechnology in the production of biomaterials from biomass is also a part of this SI. The state of the art techniques for the extraction of these bioproducts from biomass, chemical transformations, the application of enzymes, low cost and green methods and the role of machine learning in the development of these products are some of the subjects we invite researchers to contribute...

Guest Editors

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Deadline for manuscript submissions

closed (29 February 2024)



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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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