

Special Issue

Application of Enzymes in Sustainable Biocatalysis

Message from the Guest Editors

Enzyme-catalyzed reactions offer a wide range of solutions for sustainable processes because they require mild operating conditions when compared to their chemical counterparts. In addition, protein engineering and directed evolution technologies permit the modification of the properties of native enzymes by directing their qualities toward the requirements of the applications of interest. This Special Issue on “Applications of Enzymes in Sustainable Biocatalysis” will address aspects spanning from the production of these catalysts to their applications in technological purposes. Many different industries will benefit from this, but the most relevant industries are biopharma, food production, biofuels, and bioremediation industries. Topics of the Special Issue include, but are not limited to, the following:

- Enzyme production;
- Enzyme immobilization strategies;
- Enzyme assisted extraction methods;
- Photobiocatalysis;
- Enzymatic CO₂ conversion;
- Enzymatic biotransformations.

Guest Editors

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Deadline for manuscript submissions

closed (10 December 2025)



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Editor-in-Chief

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