



Enzymatic Conversion and Sustainability

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Message from the Guest Editor

Enzymes are able to catalyze numerous reaction pathways while achieving a high reaction specificity under mild conditions. Enzymatic reactions are thus believed to minimize the requirement of hazardous materials and the formation of byproducts, thus contributing to development of sustainable reaction routes.

Target substrates and the resulting products in enzymatic conversion are currently expanding because of attempts to connect green and sustainable chemistry principles to conventional chemical reactions.

The fact that new enzymes are continuously discovered as advanced techniques on cultivation, heterogeneous gene expression, and metagenomics are continuously developed also encourages deployment of the enzymes for chemical transformation. Beyond the use of native enzymes, in-depth understanding of enzymes structures, functions, and kinetics allows for sophisticated engineering of enzyme activity and ultimately leads to bulk production of several genetically modified enzymes. Adjuvant agents have made enzymatic conversion more attractive in terms of product efficiency and enzyme recyclability.





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