

Special Issue

Enzymatic Conversion and Sustainability

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.

Guest Editor

Prof. Dr. Jong-Rok Jeon

Department of Applied Life Chemistry, Gyeongsang National University,
Jinju 52828, Republic of Korea

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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