

Special Issue

Novel Enzyme and Whole-Cell Biocatalysts

Message from the Guest Editors

Global trends towards sustainability, the reduction of organic waste, and landfill avoidance are driving the demand for greener products with improved properties. Recent advances in synthetic biology, molecular biology, computational tools, and metabolic engineering have promoted the discovery of new enzymes and the rational design of whole-cell biocatalysts. Accordingly, with increased demand for sustainable and environmentally friendly biomanufacturing, the field of enzyme technology and biocatalysis (multi-enzymes and whole-cells) has become a primary focus for the synthesis of bio-based chemicals and high-value compounds. In this Special Issue, we would like to highlight these current advances in the field of biocatalysis, with special emphasis on novel enzymes and whole-cell biocatalysts for applications in industry, health, or cosmetics.

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