

## Special Issue

# Enzymes, Biocatalysis and Metabolic Engineering for Enabling Sustainability

### Message from the Guest Editor

Enzymes and biocatalysis are pivotal in driving sustainable processes across various sectors, including environmental bioremediation, agro-industries, food production, and pharmaceuticals. The discovery of novel enzymes, often through metagenomics and directed evolution, has expanded the repertoire of catalytic tools capable of operating under diverse conditions. These enzymes enable the efficient transformation of substrates, reducing the need for harsh chemical processes and minimizing environmental impact. The biosynthesis of enzymes through microbial fermentation, often employing genetically engineered microorganisms, has further enhanced their availability and cost-effectiveness. Advances in metabolic engineering have optimized these systems, tailoring enzymes for specific applications and improving yields. This multidisciplinary approach underscores the transformative potential of enzymes and biocatalysis in addressing global sustainability challenges.

### Guest Editor

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