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

Dr. Cintia Mariana Romero

Planta Piloto de Procesos Industriales Microbiológicos (PROIMI-CONICET), Av. Belgrano y Pasaje Caseros, San Miguel de Tucumán T4001, Argentina

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

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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