

Special Issue

Enzymatic Processes for the Development of Biotechnologies

Message from the Guest Editors

The industrial application of enzymes began a century ago with the production of bacterial amylases and their use in beverage fermentation and bread and cheese making, constituting the first generation of enzymatic processes. The second generation was developed in the 1980s based on protein engineering and recombinant DNA techniques, which allowed more stable enzymes to be obtained, suitable for industries such as paper and pulp. In the 1990s, enzymes were applied in biotechnology, especially to produce nutraceutical foods and pharmaceuticals. At the beginning of the 21st century, the third generation arrived with enzymes resistant to extreme conditions for bioenergy, fine chemicals, and bioremediation. Currently, the fourth generation searches for synthetic enzymes designed with AI, immobilized enzymes, and biocatalysts to degrade plastics.

This Special Issue deals with advances in enzyme engineering, as well as new and novel applications in biofuels and biorefining, environmental remediation, food and bioactive compounds, pharmaceuticals and fine chemicals, textiles, and waste management.

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