

Special Issue

Technical Advances in Enzyme Engineering and Biocatalysis

Message from the Guest Editors

This Special Issue on technical advances in enzyme engineering and biocatalysis aims to present cutting-edge research and innovations that are driving progress in enzyme-based technologies. It will focus on advancements in enzyme design, directed evolution, computational modeling, and protein engineering, highlighting their impact on improving the stability, specificity, and catalytic efficiency of enzymes. Topics will also include the development of novel biocatalysts, enzyme immobilization techniques, and the application of enzymes in sustainable chemical processes, pharmaceuticals, and environmental remediation. This Special Issue will cover a wide range of topics, including the following:

- Novel enzyme discovery and characterization;
- Directed evolution and protein engineering;
- Immobilization and bioreactor design;
- Biotransformation;
- Industrial applications of biocatalysis;
- Emerging trends and challenges.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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