

Special Issue

Blueprints of Enzymatic Function and Structure in Biocatalysis

Message from the Guest Editor

In this Special Issue of the *International Journal of Molecular Sciences*, entitled "Blueprints of Enzymatic Function and Structure in Biocatalysis", we delve into the intricate relationship between enzyme structure, kinetics, and thermodynamics in the realm of biocatalysis. Enzymes, as nature's catalysts, play a vital role in accelerating biochemical reactions, and a deeper understanding of their structural and thermodynamic blueprints is essential for innovations in synthetic biology, pharmaceuticals, and industrial applications. This Special Issue aims to present cutting-edge research on enzyme engineering, mechanistic pathways, and the kinetic and thermodynamic principles that govern enzyme efficiency, shedding light on the design of more effective and sustainable biocatalysts.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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