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Industrial Enzymes: Structure, Function and Applications

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Message from the Guest Editors

Dear Colleagues,

Enzymes play an integral and important role in various industries, recent developments in the fields of molecular biology, protein chemistry, and enzyme engineering have significantly increased the use of enzymes as biocatalysts for the production of fine chemicals and pharmaceuticals. Industrial enzymes have developed enormously in the last decade and now offer solutions for the sustainable production of chiral and highly functionalized molecules. This enormous progress is based on new approaches for the screening and identification of novel enzymes, various methods to efficiently (over)produce enzymes in an economic way, various techniques to tailor enzymes with respect to desired or novel properties, as well as a wealth of structural data on enzymes. The successful use of enzymes in industry and biocatalysis requires a transdisciplinary expertise. This dynamic interplay between different scientific areas will also be reflected in this Special Issue on the structure, function, and use of industrial enzymes, both in traditional fields and in novel industrial applications.

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Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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