Special Issue

Recent Advances on Nano-Catalysts for Biological Processes II

Message from the Guest Editors

Nanoparticles with a size of 100 nm or less have attracted great research attention due to their high surface to
volume ratio and unusual and fascinating properties. Several biological applications of nanoparticles can be listed, e.g., carbohydrate hydrolysis, production of biofuel, immobilization of enzyme, biotransformation, gene and drug delivery, and the detection of pathogen and proteins. Recently, various nanocarriers have also been used for the immobilization of different enzymes to produce nanobiocatalysts (NBCs) which further enhance enzyme performance.
In view of this, this Special Issue aims to cover the most recent progress and advances in the application of nanocatalysts for biological processes. This Special Issue includes but is not limited to the green synthesis of
nanoparticles, application of nanoparticles in wastewater treatment, dark fermentation, biofuel production,
nanobiocatalysts in bioprocessing applications, usage of nanoparticles in pretreatment processes, and the production of other value-added products.

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