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Nanozyme: Synthesis, Mechanisms, and Applications

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Message from the Guest Editors

Nanozymes are nanomaterials with enzyme-mimicking activities. Nanozymes are advantageous compared to natural enzymes due to their low cost, high stability, and long-term resistance to harsh conditions, and to date, numerous nanomaterials have been reported with enzyme-mimicking activities, such as Fe₃O₄ nanoparticles, noble metal nanoparticles, carbon nanostructures, metalorganic frameworks, etc.

The aim of this issue is to showcase unique enzyme-mimicking activities, explore solutions improving the catalytic ability of nanozymes, and study the mechanisms of catalytic reactions of nanozymes. By collecting knowledge in this field and covering a large number of synthesis methods and nanozyme applications, we aim to increase their scientific and commercial value in the field of cancer treatment, biosensing/imaging, antibacteria, ROS scavengers, environmental protection, heterogeneous catalysis, and enzymatic catalysis.













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Message from the Editor-in-Chief

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