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Polymer-Based Artificial Enzymes

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Message from the Guest Editor

Dear Colleagues,

Artificial enzymes possess inherent enzyme-like properties and functions, and are able to mitigate the limitations of natural enzymes, such as low stability, high cost and storage difficulty. Artificial enzymes have found a number of useful applications in energy production, environmental remediation, sensors, diagnostics, and biomedine. Encapsulation of enzyme-like catalytic active centers into polymers forms polymer-based artificial enzymes, which represents a simple and effective strategy for enzyme mimicry.

This Special Issue aims to report on developments in the synthesis, characterization, and application of polymer-supported artificial enzymes for a range of applications. Apart from developing new synthetic methods and exploring new applications, we will also invite scientists to share their findings relating to the catalytic mechanism in polymer-based artificial enzyme in both experimental and theoretical aspects.