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Special Issue Reprint

Nanoparticle for Catalysis

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Nanoparticle catalysts continue to be in the spotlight due to their unique performances in various chemical processes. With rapid progress in nanoscience and technology, nanoparticle-mediated reactions can be carried out in different systems regarding both gas and condensed phases. Due to the doping, surface, volume, and quantum size effects, elements in nanoparticles exhibit properties which are rather different from the ones in bulk materials, thus possibly affording higher catalytic activity and selectivity for specific reactions. This Special Issue aims to show insight into the recent advances in nanoparticle catalysis and focuses on the advantages, limitations, and future directions of nanoparticle-mediated reactions in both chemical and biological systems.

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