

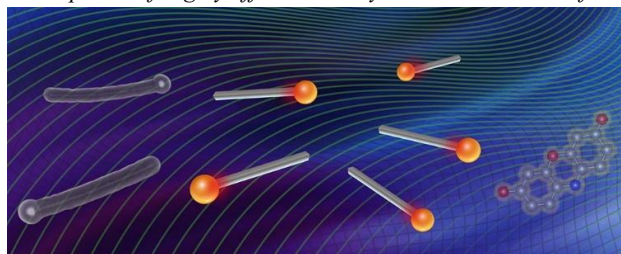
Surface Modification of Nanoparticles for Enhanced Catalytic Activity

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Abstract: *Surface chemistry plays a pivotal role in tailoring the properties of nanomaterials for various applications. This study focuses on the surface modification of nanoparticles to enhance their catalytic activity. The catalytic performance of these modified nanoparticles was evaluated through model reactions, showcasing improved catalytic efficiency compared to their unmodified counterparts. This work contributes to the fundamental understanding of surface chemistry's role in enhancing nanomaterial functionality, paving the way for the development of highly efficient catalysts with tailored surface properties*



Keywords: Surface modification, Nanoparticles, Catalytic Activity, Surface Engineering, Chemical functionalization, Characterization Techniques, Catalytic efficiency, Model Reactions, Surface chemistry, Chemical Kinetics.