

Special Issue

Metal and Non-Metal Doping Modification of Catalysts

Message from the Guest Editors

This Special Issue focuses on the doping modification of catalysts with metals and non-metals. Doping is a powerful strategy to enhance the performance of catalysts by introducing foreign atoms into their structure. Over the past decades, the modification of catalysts through metal and non-metal doping has attracted extensive attention. Metal doping can introduce active sites and improve the catalytic activity and selectivity of catalysts. Non-metal doping, such as nitrogen or sulfur doping, can regulate the electronic structure and surface properties of catalysts, enhancing their performance in various reactions. These modifications have been widely applied in fields like petrochemicals, environmental catalysis, and renewable energy. The continuous development of doping techniques and the in-depth understanding of the mechanisms have led to the creation of more efficient and sustainable catalysts. This Special Issue aims to gather the latest research findings on the metal and non-metal doping modification of catalysts, including innovative synthesis methods, detailed characterization, and practical applications, to promote further progress in this field.

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