

Special Issue

Metal-Support Interactions for Advanced Catalysis

Message from the Guest Editors

Supported metal catalysts are an important category of heterogeneous catalysts and are widely applied in various industrial chemical reactions. Metal-support interactions play essential roles in the dispersion of metals with a high surface area and the stabilization of metal particles during catalysis. Such interactions could also have a substantial impact on the shape of the metal particles (e.g., two dimensional versus three dimensional ones), thus tuning catalytic performance remarkably. Therefore, understanding metal-support interactions is essential for tuning the activity, selectivity and stability of oxide-supported metal catalysts. This Special Issue is focused on, but not limited to, recent progress in characterization, understanding and application of metal-support interactions in heterogeneous catalysis.

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