Special Issue

Synthesis and Application of Metal Mixed Oxide Catalysts (MMOs Catalysts)

Message from the Guest Editors

Heterogeneous catalysis can be considered a pillar of chemical and energy industries. Catalysis by metal oxides (MOs) or mixed metal oxides (MMOs) plays a key role, as it covers a variety of processes and offers the advantages of easy recoverability of catalysts, large surface properties variability and a relatively low preparation cost. MMOs are easily prepared by combinations of two or more (transition) metal oxides in different proportions and stoichiometry, both in crystalline or amorphous form, exploiting the synergism of the surface functions of single metal oxides to increase the activity, selectivity, and stability of the catalyst. Their high versatility makes them usable for a wide range of catalytic reactions such as selective oxidation and reduction reactions, in thermo-, electro- and photo-catalysis. This special issue will describe the most advanced synthetic methodologies of mixed oxides, the new characterization techniques, and their application in catalysis. Considered your expertise in the field, we are pleased to invite you to submit a contribution to this special issue as original research paper, communication, mini review, or review.

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