Special Issue

Transition Metals Nanocatalysis

Message from the Guest Editor

In view of the unprecedented energy and environmental issues currently faced, heterogeneous catalysis is expected to have a key role in the near future toward a sustainable development. The rational design and development of highly efficient and cost-effective (electro)catalysts are of paramount importance. The present themed Special Issue is mainly focused on recent theoretical and experimental advances in relation to the synthesis, characterization, and fine-tuning of transition metal catalysts at nanoscale. In particular, advanced nanosynthesis and optimization routes toward the development of highly active transition metals nanocatalysts for energy or environmental applications are perfectly matched to this themed issue. In addition, advanced characterization methods and in-depth experimental and computational studies toward a fundamental understanding of metal–support interactions and structure–property relationships are very welcomed. **Keywords:** Nanomaterials; Transition metals; Novel synthetic methods; Catalysts promotion; Heterogeneous catalysis/electocatalysis/photocatalysis; Metal–support interactions; Ceria-based oxides, perovskites; etc.

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Message from the Editor-in-Chief

Editor-in-Chief

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