Special Issue

Recent Progress on Nano-Catalysts for Energy Generation

Message from the Guest Editors

In this Special Issue, we invite new and important perspectives of nanoscience applications, namely nanomaterials, in catalysis, energy conversion, and energy conservation technologies. Novel physical and chemical properties of nanomaterials can be applied and engineered to meet the advanced material requirements in the new generation of chemical and energy conversion devices, reactions, and products. An example is the oxidation of alkanes to produce alcohols. Contributions of the latest advances in these fields providing an overview of the major challenges for further developments are welcome in this Special Issue. Another major topic of interest is the design of new catalysts with desirable activity and higher selectivity in order to alleviate energy and process requirements for separation and purification using current technologies based on fossil raw materials, and to protect our environment by reducing the need for disposal of waste chemicals, promoting a cleaner energy generation. In this Special Issue, we invite new and important perspectives, approaches, and applications of nanocatalysts for energy generation.

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