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Zeolite Catalysts for Energy and Environment

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Message from the Guest Editors

Zeolite-based catalysts are at the core of a multitude of industrial processes in the fields of energy and the environment. For example, in the environmental sector, copper-exchanged zeolites have become the state-of-the-art catalysts used in selective catalytic reduction of nitrogen oxides present in the exhausts of lean-burn engines used in the automotive sector. More recently, the direct low-temperature conversion of methane to methanol has been investigated progressively more due to its enormous potential uses in the energy and chemical sectors.

This Special Issue aims to cover the novel, exciting advancements made in zeolite-based catalysts used in energy and environment-related applications. Topics of interest might include (but are not restricted to) the following: innovative characterization and synthesis techniques, advancements in the understanding of reaction chemistries based on zeolitic catalysts, emerging applications in the field of energy and environment, examples of successful industrial applications, role of zeolite-based catalysts in the developing environmental and energy policies, and perspectives on future applications.