Special Issue

Catalytic Removal of Volatile Organic Compounds (VOCs)

Message from the Guest Editors

Volatile organic compounds, or VOCs, are the primary air pollutants today. Usually, several factors, such as transportation and industrial operations, are associated with their origin. Catalytic combustion is one of the most promising approaches for their removal at low concentrations. The application of various systematic research approaches related to the creation of new types of catalysts based on different noble metals or transition metal oxides is necessary for the development of systems for performing the catalytic neutralization of gases containing volatile organic compounds (VOCs), such as methane, propane, butane, and organic solvents. This Special Issue will focus on developing novel catalysts for the catalytic removal of volatile organic compounds (VOCs). Reports that describe the innovative designs of various catalytic systems for testing at multiple scales, ranging from pilot plants to laboratory catalytic reactors, as well as experimental installations to obtain information on poisoning, thermal and hydrothermal stability, and the regeneration of catalysts, are also relevant.

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