Special Issue

Waste Gas Purification Processes

Message from the Guest Editor

Volatile organic compounds (VOCs) are important precursors of combined atmospheric pollution such as PM2.5 and O3. VOCs can also cause direct or indirect harm to human health. The effective treatment of VOC pollution is the focus of air pollution control. VOC treatment technologies mainly include adsorption and recovery, condensation, membrane separation, catalytic combustion, biodegradation, low-temperature plasma, and photocatalytic degradation. The development of efficient pollution-control materials (e.g., catalysts, adsorption and separation materials) is the focus of study. Catalytic oxidation can promote the complete elimination of VOCs. The purpose of this Special Issue is to report the research trends in materials used for VOC adsorption, separation, catalytic conversion, catalytic degradation, etc. Studies on processes/mechanisms, structure–activity relationships, and by-product generation/inhibition mechanisms would be highly appreciated. It is our pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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Editor-in-Chief

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