Special Issue

Catalysts for Ozone Oxidation of Volatile Organic Compounds

Message from the Guest Editor

The increasing amount of volatile organic compounds (VOCs) emitted from industrial production and solvent use not only threaten human health as toxic and harmful substances, but also deteriorate air quality as precursors of the formation of ozone (O3) and secondary organic aerosols (SOA). Thus, efficient VOCs removal technologies require development to decrease VOC emissions. Apart from some common technologies (adsorption, absorption, catalytic oxidation, incineration, etc.), catalytic ozonation is considered one of the most promising technologies for VOCs elimination as it is able to operate at room temperature. The objective of this Special Issue is to showcase the diversity and advancements in research that contribute to developing efficient catalytic ozonation technologies for VOCs elimination. Additionally, original papers on the photocatalytic degradation of VOCs, non-thermal plasma (NTP) for VOCs removal, and catalytic ozonation combined with other technologies for VOCs removal are solicited.

Guest Editor

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