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Waste Gas Purification Processes

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Message from the Guest Editor

Volatile organic compounds (VOCs) are important precursors of combined atmospheric pollution such as PM_{2.5} 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.



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Special Issue



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Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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