Special Issue

Study on the Transformation and Degradation of Volatile Organic Compounds

Message from the Guest Editors

Volatile organic compounds (VOCs) have been proven to seriously damage the environment and human health owing to their toxic carcinogenesis and environmental destructiveness. VOCs usually come from both outdoor and indoor sources, ranging from refineries, gas stations, and fine chemical industries (paper, paint, electroplating) to household products, printers, heat-exchanger systems, and even leakage from piping. In general, the emitted VOC pollutants are not fixed in the original medium; instead, they tend to move across and accumulate in different environmental media, including soil, water, and air. Highly effective VOC elimination techniques for ecological remediation are thus of great importance and in urgent need. In addition, knowledge of the transformation and degradation mechanism of VOCs in air, soil, and water is also of great significance for VOC prevention and control. Papers addressing these topics are invited for this Special Issue, especially those combining deep mechanism investigation with advanced technologies focused on VOC treatment and the formation potential of secondary organic aerosols (SOA).

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

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