Special Issue

Catalytic Ozonation for Wastewater Treatment: Recent Advances and Perspectives

Message from the Guest Editors

Water scarcity is a hot topic, and efforts are needed to reduce its impact; wastewater reclamation can help mitigate this issue. However, the presence of contaminants of emerging concern (CECs), such as pharmaceutical and personal care products, in all water chains is a significant issue. The presence of these compounds in several water bodies is related to the inefficiency of conventional wastewater treatments against such contaminants. In this way, alternative/complementary technologies such as catalytic ozonation need to be considered as suitable solutions for CEC abatement. The presence of catalysts can improve ozone action.

The effectiveness and efficiency of catalysts are influenced by several critical parameters, including their surface area, porosity, crystallinity, and the presence of functional groups and surface defects. Additionally, the physical form of catalysts, namely whether they are in powder form or immobilized, plays a significant role in their performance. This Special Issue aims to present knowledge regarding catalyst development for the ozone process in wastewater treatments.

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