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Advanced Catalytic Technology for Environmental Pollution Control and Energy Recovery

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Message from the Guest Editors

Dear Colleagues,

The PPCP removal has arouse global concerns and tremendous research interests among the environmental scientists and engineers. The conventional wastewater treatment approaches such as activated sludge process cannot effectively remove the aqueous PPCP which exhibit non- or poor biodegradability to the microorganisms. In comparison, the advanced oxidation processes (AOP) has demonstrated high capability for decomposing the recalcitrant organic pollutants with the strong oxidative species generated during the processes. In addition, the water scarcity and energy crisis have been regarded as the two of the most serious environmental issues in both developed and developing areas. And the water reclamation and energy recovery such as hydrogen evolution during the catalysis-based wastewater treatment processes have received broad attentions. This special issue aims to cover the recent progresses and advances in designing and characterization of novel catalyst, novel AOP for high-rate decomposition of PPCP, AOP for wastewater treatment and reuse and catalytic processes for simultaneous wastewater purification with hydrogen evolution.