



catalysts



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Advanced Catalytic Materials and Processes for Water/Wastewater Treatment

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Message from the Guest Editors

Dear Colleagues,

With the rapid development of urbanization and industrialization, the quantity and types of contaminants entering water bodies have sharply increased, leading to a serious pollution of water resources. Contaminants with low biodegradability and low molecular weight can hardly be removed using traditional treatment approaches, but are vulnerable to advanced catalytic materials and methods. Recently, novel catalysts that are more environmentally friendly, and have higher catalytical efficiencies, and broader application prospects have been synthesized.

Submissions are welcome in the form of original research papers or short reviews that reflect the state of the art and outlooks in this field. This Special Issue will focus on, but is not limited to, the following aspects: 1) designing novel synthetic methods and catalytic materials for water/wastewater treatment; 2) degrading contaminants of emerging concern by catalytic processes, including photocatalytic, electrocatalytic, sonocatalytic, etc.; 3) application of catalysts in advanced oxidation/reduction technologies; 4) theoretical modeling of catalysis processes; and 5) toxicity studies on catalysts.

Special Issue