Special Issue

Advanced Catalytic Materials and Processes for Water/Wastewater Treatment

Message from the Guest Editors

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.

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Deadline for manuscript submissions

closed (30 May 2025)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

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