Special Issue

Photocatalytic Applications in Wastewater Treatment

Message from the Guest Editors

Wastewater treatment is a critical aspect of sustainable development and environmental protection. However, traditional wastewater treatment methods have some limitations, such as a high energy consumption, the generation of secondary pollutants, and limited efficiency. Photocatalysis has emerged as a promising technology for the treatment of wastewater, owing to its sustainable and cost-effective approach to removing organic pollutants from wastewater.

This Special Issue aims to gather the latest research, innovations, and advances in photocatalytic processes for the treatment of wastewater contaminated with various types of pollutants. We welcome the submission of papers that attend to various topics of interest, including the methods employed to synthesize novel photocatalysts, the advanced techniques used to characterize photocatalysts, the mechanisms involved in the photocatalytic degradation of organic pollutants, the optimization of photocatalytic systems for wastewater treatment, the integration of photocatalysis with other treatment processes, and the environmental and economic impacts of photocatalytic wastewater treatment.

Guest Editors

Prof. Dr. Zhen Wei

Beijing Key Laboratory for Green Catalysis and Separation, Key Laboratory of Advanced Functional Materials, Education Ministry of China, Laboratory of Catalysis Chemistry and Nanoscience, Department of Chemical Engineering and Technology, College of Materials Science and Engineering, Beijing University of Technology, Beijing 100124, China

Dr. Yueping Bao

College of Environmental Science and Engineering, Nankai University, Tianjin 300350, China

Dr. Wenlu Li

Department of Chemistry, Tsinghua University, Beijing, China

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Environments
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
environments@mdpi.com

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Sergio Ulgiati
1. Department of Science and Technology, Parthenope University of Naples, Centro Direzionale, Isola C4, 80143 Napoli, Italy
2. School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Beijing Normal University, No. 19 Xinjiekouwai Street, Beijing 100875, China

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