

Special Issue

Advanced Materials and Technologies for Pollution Detection and Environmental Remediation

Message from the Guest Editors

Today, with fast industrialization and excessive water consumption, different contaminants including inorganic and organic compounds, oils, heavy metals, micro- and nanoplastics, paints, and surfactants are extensively discharged into water bodies. These pollutants may have considerable adverse effects on the environment and human health even in very low concentrations. Therefore, their detection and treatment become an important problem. The development of stable and cost-effective methods and materials to provide clean water in sufficient amounts is required for the water industry. This Special Issue collects data from worldwide research groups in the area of monitoring and treatment of water pollutants and recommends research needs in this research area. Advanced oxidation processes (AOPs, including photocatalysis, electrochemical processes, Fenton-based methods, and sonocatalysis), membrane filtration, adsorption [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/Materials_Technologies

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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