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Environmental Functional Materials for Water and Wastewater Treatment: Recent Advances and Challenges

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Deadline for manuscript submissions:
closed (20 December 2023)

Message from the Guest Editors

The aim of this issue is to discuss the recent development of environmental and functional materials for their applications in water decontamination. The recent development of novel environmental and functional materials in design, synthesis, characterization and their promising application potential will be greatly appreciated. Moreover, we paid attention to the interaction and mechanism among materials, microstructure and the performances in water decontamination.

Potential topics include, but are not limited to:

- (1) Synthesis strategies and characterization methods of environmental functional materials;
- (2) Films, hydrogels and aerogel from environmental functional materials;
- (3) Interaction and mechanism between different types of environmental functional materials;
- (4) Transition metal and carbon material-based environmental functional materials;
- (5) Environmental materials in advanced oxidation processes (AOPs);
- (6) Environmental materials for water decontamination;
- (7) Fundamental studies of environmental functional materials: synthesis strategies and characterization methods;
- (8) Novel catalysis and adsorbent for water



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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.

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