



water

an Open Access Journal by MDPI



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

Guest Editors:

Prof. Dr. Xiuwen Cheng

Key Laboratory for Environmental Pollution Prediction and Control, College of Earth and Environmental Sciences, Lanzhou University, Lanzhou 730000, China

Dr. Junjing Li

School of Environmental Science and Engineering, Tiangong University, State Key Laboratory of Separation Membranes and Membrane Processes, Tianjin 300387, China

Deadline for manuscript submissions:
closed (20 December 2023)



mdpi.com/si/154190

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

Special Issue



water

IMPACT
FACTOR
3.0

CITESCORE
6.0

an Open Access
Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la
Biodiversité l'Environnement
(CRBE) UMR
CNRS/UPS/INPT/IRD, Centre
National de la Recherche
Scientifique (CNRS), University of
Toulouse, Campus ENSAT,
Auzeville Tolosane, Toulouse,
France

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

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.

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)