



water

an Open Access Journal by MDPI



## Improved Constructed Wetlands

Guest Editors:

**Prof. Dr. Krzysztof  
Jóźwiakowski**

Department of Environmental  
Engineering and Geodesy,  
Faculty of Production  
Engineering, University of Life  
Sciences in Lublin, Poland

**Prof. Dr. Piotr Bugajski**

Department of Sanitary  
Engineering and Water  
Management, University of  
Agriculture in Kraków, Poland

**Dr. Magda Kasprzyk**

Department of Water and  
Wastewater Technology, Faculty  
of Civil and Environmental  
Engineering, Gdańsk University of  
Technology, Gdańsk, Poland

Deadline for manuscript  
submissions:

**closed (30 June 2023)**

### Message from the Guest Editors

Constructed wetland systems (CWs) have been used for water protection worldwide for more than 60 years. In the beginning, in the 20th century, one-stage CWs with vertical flow (VF) or horizontal flow (HF) were usually used. However, since the beginning of the 21st century, hybrid CWs have been used increasingly often because they provide much more efficient pollutant removal. The advantages of CWs include, among others, the low cost of their construction and operation and the low energy requirements.

This [Special Issue](#) is to present innovative studies on improved constructed wetland systems and related to 1) the processes of pollutant removal from a different kind of wastewater; 2) the identification of bacteria participating in wastewater treatment processes; 3) the creation of various technological hybrid systems in order to obtain the optimal effects of pollutants removal and most of all nitrogen and phosphorus or micropollutants; 4) the modeling of hydraulic flow; 5) the efficiency and reliability of pollutant removal; 6) the dewatering of sewage sludge; 7) water reuse; 8) and rules of design and economic aspects of the operation of constructed wetlands.



[mdpi.com/si/101992](https://mdpi.com/si/101992)

Special Issue



*water*



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

## 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.

## 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)

## Contact Us

---

Water Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/water](http://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](https://twitter.com/Water_MDPI)