

## Special Issue

# The Application of Novel Biotechnologies for Removal of Emerging Contaminants

### Message from the Guest Editor

Currently, the aquatic environment is exposed to severe pollution related to the ubiquity of microplastic, the overuse of antibiotics, and uncontrolled pollution from emerging contaminants. Due to these threats, environmental biotechnology faces a major challenge when it comes to finding solutions to their removal from the water. A significant portion of these pollutants bypass conventional wastewater treatment processes and enter aquatic ecosystems, or accumulate in treatment byproducts (e.g., excess sludge or adsorbents), potentially finding other pathways to environmental dispersion. Therefore, it is of utmost importance to find innovative solutions that enable their effective destruction. Emerging contaminants include disinfection by-products, pharmaceutical and personal care products, fire retardants, insecticides, and industrial chemicals, as well as their partial degradation products. The evaluation of their residual presence in wastewater treatment plants, effluents, and byproducts is important for determining the risk to the environment.

---

### Guest Editor

Dr. Paulina Rusanowska

Department of Environmental Engineering, Faculty of Geoengineering, University of Warmia and Mazury in Olsztyn, 10-720 Olsztyn, Poland

---

### Deadline for manuscript submissions

closed (20 January 2026)



## Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/si/212127](https://mdpi.com/si/212127)

*Water*

Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[water@mdpi.com](mailto:water@mdpi.com)

[mdpi.com/journal/  
water](https://mdpi.com/journal/water)





# Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/journal/  
water](https://mdpi.com/journal/water)



## About the Journal

### 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

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)