



Contaminants Occurrence, Transport and Reactivity in Aquatic Ecosystems and Utilities

Guest Editors:

Prof. Dr. Michal Zielina

Faculty of Environmental
Engineering and Energy, Cracow
University of Technology, 24
Warszawska St., 31-155 Cracow,
Poland

Prof. Dr. Andrzej Bielski

Faculty of Environmental
Engineering and Energy, Cracow
University of Technology, 24
Warszawska Street, 31-155
Cracow, Poland

Dr. Anna Młyńska

Faculty of Environmental
Engineering and Energy, Cracow
University of Technology, 24
Warszawska Street, 31-155
Cracow, Poland

Deadline for manuscript
submissions:

closed (20 November 2023)

Message from the Guest Editors

Nearly every form of human activity strongly impacts the aquatic environment, from water intake and wastewater production to waste disposal and leachate leaks into groundwater and surface water. This activity, combined with natural phenomena and the rapidly changing climate, severely threaten the aquatic environment.

Possible consequences include periodical local shortages of water for drinking, domestic, agricultural and industrial purposes and a significant deterioration in water quality, limiting or completely preventing its use. These factors may hinder or inhibit the activities of fauna and flora, including those consumed by humans. Threats to the aquatic ecosystem include intensive, human-induced eutrophication, an increase in heavy metal concentrations and numerous contaminants, such as microplastics, pharmaceuticals and personal care products, polluting surface waters and groundwaters, seas and oceans. Contaminated water drawn for human use must undergo a complicated treatment process and poses a great risk to the users.

In order to protect the aquatic ecosystem and improve human livelihoods, research is needed within the scope of this Special Issue.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)