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Aquatic Macrophytes and Pollutants: Interactions, Indicator Role, and Phytoremediation Possibilities

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Deadline for manuscript submissions:
closed (25 May 2024)

Message from the Guest Editors

Aquatic macrophytes can survive in polluted habitats to a certain extent and respond to different pollutants in various ways. They constitute the largest amount of biomass in aquatic ecosystems and are often the first organisms affected by pollution as well as being responsible for introducing toxic substances into the food chain. The species with bioaccumulation abilities are useful phytoremediation agents, while those that exhibit a proportional dose–response have applications in biomonitoring and bioindication.

The aim of this Special Issue is to provide a platform to promote, share, and discuss new scientific evidence on the interactions between aquatic macrophytes and pollutants, their environmental consequences, and possible applications. We welcome papers addressing topics including, but not limited to, the following:

- Impacts of pollution and water quality on the performance of aquatic plants;
- Uptake, sorption mechanisms and accumulation of pollutants in macrohydrophytes;
- Distribution of pollutants in aquatic plant tissues and communities;
- The application of aquatic plants in biomonitoring, bioindication, and phytoremediation.

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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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