





an Open Access Journal by MDPI

Contaminant Toxicity Monitoring and Assessment of Freshwater Ecosystems

Guest Editor:

Dr. Emília Silva

LEAF-Linking Landscape, Environment, Agriculture and Food Research Center, Associate Laboratory TERRA, Instituto Superior de Agronomia, Universidade de Lisboa, Tapada da Ajuda, 1349-017 Lisboa, Portugal

Deadline for manuscript submissions:

closed (20 July 2024)

Message from the Guest Editor

The quality of freshwater environments can be impacted by emerging and existing pollutants. Water and sediment quality is typically monitored employing targeted analytical methods for regulated substances that are known to pose a significant risk to or via the aquatic environment. However, chemical analysis does not account for the potential cumulative effects of complex mixtures of chemicals present in water and sediment. Effect-based methods such as in vivo whole-organism bioassays and in vitro assays have emerged in recent years, overcoming shortcomings. So, combining effect-based approaches with chemical screening tools is the most promising method of connecting chemical contamination and ecological status by detecting, unravelling and prioritizing mixtures and compounds that drive adverse effects

The main objective of the Special Issue is to bring together current research and reviews that address the application of bioassays in a battery, using a high number of test species of several taxa across major ecological or trophic positions, and chemical analysis in parallel, in order to provide a comprehensive and realistic picture of the potential effects on exposed biota.







IMPACT FACTOR 3.0

citescore 5.8

an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, 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 technological scientific domains and 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 (Water Science and

Technology)

Contact Us