

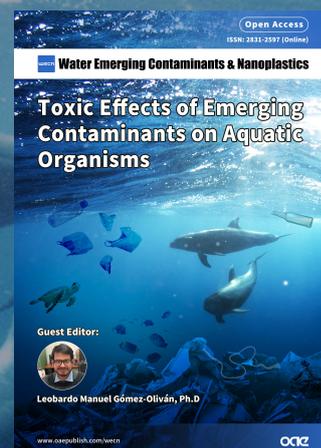
Toxic Effects of Emerging Contaminants on Aquatic Organisms

Guest Editor:



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Special Issue Introduction:

Emerging contaminants are compounds whose presence and impact in different environmental compartments are poorly understood, which is why they are not yet regulated, and in some cases, the availability of methods for their analysis is limited. Another peculiarity of these compounds is that, due to their high production and consumption and their continuous introduction into the environment, they do not need to be persistent to cause deleterious effects. Emerging pollutants include: brominated flame retardants, chloroalkanes, polar pesticides, perfluorinated compounds, pharmaceuticals, personal care products, food additives and drugs of abuse, as well as metabolites and/or degradation products of the previous classes of substances. Currently, the study of emerging pollutants is among the priority lines of research of agencies dedicated to the protection of public and environmental health, such as the World Health Organization (WHO), the United States Environmental Protection Agency (USEPA), and the European Medicines Agency. The indiscriminate use and incorrect disposal of these compounds have led to their entry into aquatic ecosystems through municipal, hospital and industrial discharges, which has caused various undesirable effects on the environment and aquatic species. Some of the effects reported by the presence of these xenobiotics in aquatic organisms are variation in the life cycle, damage to germ cells, liver damage, alterations to biomolecules such as proteins, lipids and nucleic acids, endocrine disruption and behavioral alterations, among others. The effects identified have been presented in acute and chronic studies. This special issue "Toxic Effects of Emerging Contaminants on Aquatic Organisms" will be a platform for researchers involved in evaluating the ecotoxicological effects of emerging contaminants on various aquatic organisms. Articles should cover the main topics of this special issue. Systematic critical reviews and research articles are welcome in this special issue.

Proposed Topics

- 1.Alterations to embryonic development
- 2.Cytotoxicity
- 3.Genotoxicity
- 4.Histopathological damage, inflammation, and oxidative stress
- 5.Neurotoxicity and behavioral changes
- 6.Biochemical, metabolic, and hematological changes
- 7.Hepatotoxic effects
- 8.Carcinogenic effects
- 9.Immune system disorders
- 10.Endocrine disruption
- 11.Mutagenicity
- 12.Reproductive toxicology

Keywords:

Micropollutants
Emerging contaminants
Ecotoxicological effects

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- The APCs (\$600) will be WAIVED;
- Enjoy faster publication than regular submissions;
- Authors will be invited as Guest Speakers to our journal webinars. The webinar will be held via Zoom and it will also be broadcast live on Youtube and the Chinese WeChat Official Account, Video Account, Bilibili;
- A special interview will be provided to authors and will be promoted on the journal homepage and all media promotion platforms of both via the journal and publisher.

Submission Deadline: 23 Mar 2023