Journal of Toxicology

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Special Issue on

# The Toxic Effects of Chemicals on Aquatic Organisms: Monitoring and Assessment

CALL FOR PAPERS

Pollution on Earth is ubiquitous across ecosystems from the land to the ocean. Various sources contribute to pollution, including industrial (e.g., chemicals), agricultural (e.g., pesticides), and domestic (e.g., transportation) pollutant ecosystems and substrate environment (e.g., contamination in water). The extensive use and discharge of these chemicals in the environment will induce toxicology and may impair biological communities. Due to the lack of target specificity, these chemicals can cause severe and persistent toxic effects on nontarget aquatic species, including bacteria, invertebrates, and vertebrates. Different degrees of biological response have been presented according to the intensities of different chemicals.

The topic covers new monitoring technologies and environment assessment of chemicals. Knowledge and understanding of these conditions have led to the development of new monitoring and assessment technologies based on biological and chemical methods. We invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts to understand the above aspects.

Potential topics include but are not limited to the following:

- The scientific methods for monitoring and assessment: scaling methods, the use of biological indicators/biomarkers, dynamic and commitment models, pollution indices, and so forth
- The design and development of sampling techniques, methods, and monitoring systems of chemicals
- Methods and procedures of pollution risk assessment
- Consequences on monitoring and assessment methods as a result of new trending
- New laboratory techniques of emerging pollutants quantification

Authors can submit their manuscripts through the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/jt/teco/.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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