Special Issue

Metal Oxidative Stress in Polluted Inland Water

Message from the Guest Editor

Metals in water cause oxidative stress; the defense mechanism of the aquatic environment is different and complex among species, and regulated by many physical-chemical parameters, but, often, this process leads to a biodiversity loss. Climate change can worsen already compromised environments. The reactive oxygen species (ROS) production is the first signal of pollution: the defense pathway starts to work, but it is an emergency response and can bring to the death or to a selection to few species metal tolerant. For this Special Issue, we invite high-quality original research papers, short communications, and review on the oxidative stress of inland water due to metals pollution. Areas of interest may include (but are not limited to): monitoring of aquatics organism in metals polluted waters, climate change and environmental instability, model systems, biomarkers, insight on understanding molecular pathway, the competition and the cooperation among the organisms in metals polluted water, biofilms structure and biological role, new technological skill, molecular biology, transcriptome, proteomics, and FTIR.

Guest Editor

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Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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