

Special Issue

Effect-Based Evaluation of Emerging Contaminants and Their By-Products in the Aquatic Environment

Message from the Guest Editors

This Special Issue addresses the need for comprehensive effect-based evaluation of emerging contaminants (ECs) and their transformation products in aquatic environments. The focus encompasses pharmaceuticals, industrial chemicals, pesticides, nanomaterials, microplastics, and other contaminants in freshwater, marine, groundwater, and wastewater systems. The objective is to bridge the gap between chemical detection and biological relevance, establishing cause–effect relationships for regulatory purposes. The timing is strategically aligned with increasing regulatory emphasis on effect-based methods, particularly in European water management, reflecting the recognition that chemical analysis alone cannot adequately protect aquatic ecosystems from complex contaminant mixtures. This comprehensive approach advances our understanding of how emerging contaminants affect aquatic life, supporting the development of more effective monitoring strategies and regulatory frameworks that better protect environmental and human health through scientifically robust effect-based evaluation methods.

Guest Editors

Prof. Dr. Elke Dopp
Dr. Tim aus der Beek
Dr. Jochen Tuerk

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Toxics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
toxics@mdpi.com

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About the Journal

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.

Editor-in-Chief

Dr. Demetrio Raldúa
Department Environmental Chemistry, IDAEA-CSIC, Jordi Girona 18,
08034 Barcelona, Spain

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