



toxics



an Open Access Journal by MDPI

Tackling Complexity: Transport, Fate, Exposure, and Prioritization for Organic Contaminants in Complex Mixtures

Guest Editors:

Dr. Carrie McDonough

Department of Civil Engineering,
Stony Brook University, Stony
Brook, NY 11794-4424, USA

Dr. James McCord

Center for Environmental
Measurement and Modeling,
United States Environmental
Protection Agency, Research
Triangle Park, NC 27711, USA

Deadline for manuscript
submissions:

closed (1 November 2021)

Message from the Guest Editors

Organic contaminants nearly always present as a component of complex mixtures. Research is ongoing to provide advanced (bio)analytical techniques to assess complex mixture composition and provide toxicity/risk assessment information for chemical prioritization and rapid decision making. Studies aiming to provide comprehensive characterization of mixtures use a wide range of innovative lab-based, field-based, and in silico approaches to describe mixtures at the whole or fractionated level and identify contaminants that drive ecological and human health risk.

In this Special Issue, we will present the current state of science related to understanding the fate and transport of complex mixtures in environmental systems, exposure of humans and ecological receptors to these mixtures, and strategies to identify compounds that should be prioritized as primary drivers of risk. Original research articles and reviews are welcome. Articles describing the use of innovative workflows to prioritize contaminants based on occurrence, effects, or predicted risks, and articles demonstrating the fractionation of complex mixtures among environmental and biological compartments, are especially welcome.



mdpi.com/si/78667

Special Issue



toxics



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Demetrio Raldúa

Department Environmental
Chemistry, IDAEA-CSIC, Jordi
Girona 18, 08034 Barcelona,
Spain

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [Embase](#), [CAPlus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q1 (Toxicology) / CiteScore - Q2 (*Chemical Health and Safety*)

Contact Us

Toxics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/toxics
toxics@mdpi.com
[X@@Toxics_MDPI](#)