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Occurrence and Risk Assessment of Chemicals of Emerging Concern (CECs) in the Environment and Humans

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Message from the Guest Editors

This Special Issue will act as a cornerstone for advancing our understanding of the occurrence, transport, and health implications of chemicals of emerging concern (CECs) like pharmaceuticals, microplastics, flame retardants, and per- and polyfluoroalkyl substances, which, despite their growing presence, have yet to be comprehensively studied. Our scope encompasses cutting-edge research on their detection in various environmental matrices, elucidating fate and transformation processes that influence persistence and bioaccumulation. We emphasize the need for thorough risk assessments to quantify human and ecological exposure, exploring exposure routes, biomonitoring results, and resultant health impacts, with particular attention being paid to sensitive populations and ecosystems. Moreover, the Special Issue encourages the exploration of ecotoxicological consequences, pushing for the development of specialized testing methodologies. Recognizing the urgent need for solutions, we also highlight innovative strategies for CEC mitigation and management and policy interventions aimed at curbing releases and enhancing treatment efficiency.



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Special Issue



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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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