

Special Issue

Halogenated and Heterocyclic Derivatives of Polycyclic Aromatic Compounds (PACs): Bridging the Gaps in Occurrence, Exposure, and Toxicological Risk

Message from the Guest Editors

Halogenated Polycyclic Aromatic Compounds (HPACs), which include HPAHs and other halogenated derivatives, represent a critical, yet under-investigated, class of environmental contaminants. Unlike their well-studied parent compounds, HPACs often exhibit enhanced persistence, bioaccumulation potential, and toxicity, posing an emerging global risk. This Special Issue invites contributions that move beyond traditional monitoring to unravel the complete environmental and toxicological profile of HPACs. We seek manuscripts that apply non-target screening to identify novel congeners, characterize their ubiquitous occurrence and source apportionment in complex environmental matrices, and clarify their environmental fate and transport pathways. A particular focus is on understanding human and ecological exposure and utilizing bioanalytical tools to assess the combined biological impacts of HPAC mixtures. By integrating advanced analytical chemistry with contemporary toxicology, this issue aims to close the critical knowledge gaps necessary for effective risk assessment and regulation of these emerging persistent pollutants.

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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.

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