

Halogenated Organic Pollutants: Toxicology and Environmental Chemistry

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EDITORIAL

Intentionally manufactured substances and unintended consequences of various anthropogenic activities are examples of halogenated organic contaminants. Many halogenated organic contaminants are extremely hazardous and present in all environmental compartments. The environmental behavior and toxicity of halogenated organic contaminants have always piqued the public's interest. Furthermore, an increasing number of novel halogenated organic contaminants are discovered to be detrimental to the environment and human health. Many halogenated organic pollutants are governed by international accords such as the Stockholm Convention. Their toxicity, environmental behavior, and human exposure paths must all be investigated. Long-term tracking and monitoring studies understanding of their Mechanisms of toxicity, environmental behavior, and human exposure for a better outcome, paths must be thoroughly researched and explained. Their release into the environment is under control and regulated.

Toxicology and Environmental Chemistry of Halogenated Organic Pollutants is a special issue that focuses on studies related to the toxicology and environmental behavior of halogenated organic pollutants. Advanced analytical methodologies, toxicity mechanisms, environmental behavior, human exposure, and source apportionment are among the subjects covered. This special issue also includes studies on the mechanics of generation, inhibition and control approaches, regulation, and policy analysis of halogenated organic pollutants.

This special issue contains approximately 55 studies that focus on halogenated organic contaminants. The contributors came from various research institutes and universities all around the world. The accepted

studies cover topics such as sensitive analytical techniques for target organic pollutants, environmental concentrations across media, dioxin profiles and behaviors, organochlorine pesticides (OCPs), flame retardants, perfluoroalkyl substances, polyhalogenated carbazoles, polycyclic aromatic hydrocarbons and their chlorinated derivatives, and so on. This special issue also included the toxicity mechanisms and risk assessment of methyltriclosan, BDE47, pharmaceutical and personal care product components (PPCPs), organic ultraviolet (UV) filters, and other chemicals. Emerging environmental contaminants, such as environmentally persistent free radicals in airborne particles, were also included in the study, with emphasis on their occurrence, exposure, and dangers. A review paper that completely covers the prevalence of persistent organic contaminants in a lake ecosystem was also published in this special edition. Several research on the amount of emissions, formation methods, and control approaches and measures for inadvertently created halogenated organic pollutants from industrial sources in developing nations have also been included. This special issue is intended to provide an interesting collection of papers on the toxicity and environmental chemistry of halogenated organic contaminants. We also hope that this special issue will spur more research into the possible harmful effects of halogenated organic pollutants, as well as control and regulation of their source emissions, thereby decreasing future exposure and hazards.

We warmly thank all the authors, anonymous reviewers, and publishers who contributed significantly to this special issue on halogenated organic contaminants. We would also like to thank the editors of *Ecotoxicology and Environmental Safety (EES)*, notably Professor Bing YAN, for their invaluable assistance in organizing this special issue.

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