

Special Issue

Fate and Effects of Toxic Agents in Water Bodies

Message from the Guest Editors

Toxicological agents in water bodies pose increasingly threats to aquatic ecosystems and human health. This Special Issue aims to comprehensively explore the interactions of contaminants in aquatic ecosystems, providing new insights into their consequences for both aquatic organisms and human populations. The scope of this Special Issue includes trace metals, organic chemicals, pesticides, pharmaceuticals, plastics and other contaminants of emerging environmental concern, examining their sources, environmental fate and cycling, mechanisms of action, bioaccumulation, and biomagnification processes. The issue also addresses the use of numerical models to study such processes and mechanisms, and the broader context of environmental regulations, policies, and management strategies designed to mitigate the impact of toxic agents. By incorporating recent advancements and case studies, the Special Issue contributes to fulfil knowledge gaps on the current understanding of toxicological agents in water bodies, offering valuable insights for future research, policymaking, and sustainable management of aquatic ecosystems.

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