

Special Issue

Harmful Algal Blooms in Waters: Characterization, Monitoring and Management

Message from the Guest Editor

The rising prevalence of harmful algal blooms (HABs) poses significant threats to environmental and public health. The diversity of cyanobacterial species and their variable toxin production under different circumstances poses a multifaceted challenge. The diversity of cyanotoxins, their extensive structural variability and the lack of knowledge about their environmental fate highlights the need for accurate detection and characterization methods. The unpredictability of cyanotoxin occurrence necessitates the continuous monitoring and adaptability of response strategies for water management. This Special Issue invites research articles and reviews that explore original methodologies for characterizing toxic cyanobacteria, cyanotoxins and secondary metabolites, as well as studying their diversity and environmental fate for improved monitoring strategies. Studies on predictive models for the occurrence of cyanobacteria and the production of cyanotoxins, along with the exploration of effective water treatment methodologies and the study of residual by-product toxicity for better management are also welcome in this Special Issue.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

Editor-in-Chief

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