# Special Issue

# Ecology and Toxicology of Cyanobacteria and Cyanotoxins

## Message from the Guest Editors

Cyanobacteria, or blue-green algae, are a primitive group of oxygenic photosynthetic bacterial microorganisms and can be found in all terrestrial and aquatic ecosystems. However, eutrophication and global warming are likely to increase the frequency, magnitude, intensity and duration of cyanobacterial blooms in many aquatic ecosystems globally. Cyanobacterial blooms can adversely affect water quality, including increased turbidity, hypoxia, anoxia and production of unpleasant odors and tastes. Cyanobacterial blooms are also a potential health hazard due to the ability of some species to produce toxins (e.g., microcystins) that are toxic to other living organisms, including humans. Keywords

- global climate change and eutrophication
- cyanobacteria
- harmful cyanobacterial blooms
- cyanotoxin diversity and production
- monitoring and detection
- occurrence and accumulation
- human and ecosystem health
- toxicokinetics and toxicodynamics
- toxic mechanisms
- risk assessment and management

## Guest Editors

Prof. Dr. Jun Chen

Institute of Hydrobiology, Chinese Academy of Science, Wuhan 430072, China

Dr. Liang Chen

Institute for Ecological Research and Pollution Control of Plateau Lakes, School of Ecology and Environmental Science, Yunnan University, Kunming 650500, China

## Deadline for manuscript submissions

closed (20 August 2023)

**Toxins**

**an Open Access Journal by MDPI**

**Impact Factor 4.0**
**CiteScore 8.2**
**Indexed in PubMed**

mdpi.com/si/94947

*Toxins*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
toxins@mdpi.com

mdpi.com/journal/toxins

# Toxins

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/toxins

# 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

Prof. Dr. Jay Fox
Department of Microbiology, University of Virginia, Charlottesville, VA, USA

## Author Benefits

**High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, AGRIS, and other databases.

**Journal Rank:**

JCR - Q1 (Toxicology) / CiteScore - Q1 (Toxicology)

**Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).

MDPI