



toxics



an Open Access Journal by MDPI

Insights into the Biology of Plants Affected by Toxic Chemicals

Guest Editor:

Prof. Dr. Xiao-Zhang Yu

College of Environmental Science
& Engineering, Guilin University
of Technology, Guilin 541004,
China

Deadline for manuscript
submissions:

22 November 2024

Message from the Guest Editor

Dear Colleagues,

Numerous of the existing ecosystems are currently polluted by some kind of toxic chemicals, which affect plant growth and yield, and, the entrance of these toxic chemicals into the food chain is almost unavoidable. Phytoremediation techniques that incorporate new plant growth regulators are powerful and promising potential options for the remediation of these contaminated sites, either for the complete removal of these chemicals or to reduce their toxicity.

In this regard, we welcome novel insights, fundamental research, and analyses about the effects of toxic chemicals on plants for this Special Issue. Toxic chemicals include all xenobiotics, i.e., heavy metals, polyaromatic hydrocarbons, and other emerging toxic chemicals, in environmental matrices. We aim to collect papers delineating the "Toxic State" by investigating the molecular and cellular responses of plants exposed to environmental chemicals and stressors. Meanwhile, plants' responses to these toxic chemicals and strategies to overcome the negative effects of these chemicals are also of interest.



mdpi.com/si/202296

Special Issue



toxics



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Demetrio Raldúa

Department Environmental
Chemistry, IDAEA-CSIC, Jordi
Girona 18, 08034 Barcelona,
Spain

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [Embase](#), [CAPlus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q1 (Toxicology) / CiteScore - Q2 (*Chemical Health and Safety*)

Contact Us

Toxics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/toxics
toxics@mdpi.com
[X@@Toxics_MDPI](#)