



toxics



an Open Access Journal by MDPI

Detection and Risk Assessment of Undesirable Chemical Residues in Food

Guest Editors:

Dr. Fangwei Yang

College of Light Industry and
Food Engineering, Nanjing
Forestry University, No.159
Longpan Road, Nanjing 210037,
China

Dr. Yahui Guo

School of Food Science and
Technology, Jiangnan University,
No.1800 Lihu Avenue, Wuxi
214122, China

Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

The dietary exposure to undesirable chemical residues in food may have adverse effects on humans' health. Hence, the analysis, measurement, and risk assessment of these chemical pollutants are a prominent topic in food science. These undesirable chemical residues include, but are not limited to: exogenous pollutants (such as pesticides, veterinary drugs, fungal toxins, bacterial toxins, microplastics, plasticizers, heavy metals, benzopyrenes, dioxins, etc.), endogenous toxins (such as aquatic products endogenous toxins, plant natural toxins, allergens, etc.), and hazardous substances generated during food processing (such as heterocyclic amines, chloropropanols, acrylamide, advanced glycation end products, etc.).

A series of toxic reactions may be triggered by dietary exposure to these chemical toxins, such as liver toxicity, kidney toxicity, intestinal toxicity and gut microbiota disorder, reproductive toxicity, endocrine disrupting effects, neurotoxicity, and teratogenic, carcinogenic, and mutagenic effects. The detection, risk assessment, and control of these undesirable chemical residues play a crucial role in ensuring food safety and humans' health.



mdpi.com/si/186912

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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/toxics
toxics@mdpi.com
X@Toxics_MDPI