



*toxics*



an Open Access Journal by MDPI

## Advanced Oxidation Processes and Biodegradability

Guest Editors:

**Dr. Babak Kakavandi**

Department of Environmental  
Health Engineering, Alborz  
University of Medical Sciences,  
Karaj, Iran

**Dr. Na Tian**

School of Environmental Studies,  
China University of Geosciences,  
Wuhan 430074, China

Deadline for manuscript  
submissions:

**closed (31 October 2023)**

### Message from the Guest Editors

Efficient decontamination of different recalcitrant organics from contaminated water/soil/air media is known to be a serious challenge in environmental treatment objectives. Further scientific studies are needed to better understand the mechanisms at play, neutralize the effect of interfering factors, process design engineering, reactions control of oxidation and powerful reactive species generation, improve mineralization efficiency, and enhance the use of sustainable and recyclable catalysts to increase the practical applicability of AOPs. In this Special Issue, entitled “Advanced Oxidation Processes and Biodegradability”, we invite manuscripts on the development, mechanisms, performance and practical application of AOPs (e.g., photocatalysis, ozonation, sonocatalysis, sulfate/iodate/carbonate/chlorine radical-based AOPs, new combinations for AOPs) for treating the contaminated environments. These may be in the form of reviews, full-length articles, or short communications.



[mdpi.com/si/155329](https://mdpi.com/si/155329)

**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](http://www.mdpi.com)

[mdpi.com/journal/toxics](http://mdpi.com/journal/toxics)  
[toxics@mdpi.com](mailto:toxics@mdpi.com)  
[X@@Toxics\\_MDPI](#)