Special Issue

Formation, Composition, and Potential Risks of Secondary Organic Aerosol

Message from the Guest Editors

Secondary organic aerosols (SOAs) contribute to a significant fraction of atmospheric particles, profoundly affecting human health, air quality, and climate change. Previous studies have shown that high levels of SOAs formed under atmospheric conditions are attributed to complex chemical and physical processes, and a quantitative and comprehensive understanding of SOA formation mechanisms is still absent. Also, many studies declare the correlations of SOAs with respiratory diseases, highlighting the necessity of SOA composition analysis and risk evaluation. Moreover, SOAs directly affect the Earth's radiation budget by adsorbing and scattering solar radiation; therefore, the significant role of organic aerosols in the climate system is evident. However, SOA formation and transformation mechanisms remain elusive, resulting in big challenges in understanding their environment and health impacts. This Special Issue solicits original research on the sources, formation, transformation, and impacts of SOAs in the atmosphere. Experimental, theoretical, and field studies concerning SOAs in the atmosphere are encouraged.

Guest Editors

Prof. Dr. Yuemeng Ji

Dr. Weina Zhang

Dr. Ling Liu

Deadline for manuscript submissions

closed (31 August 2025)

Toxics

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/198474

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

mdpi.com/journal/toxics

Toxics

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/toxics

About the Journal

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.

Editor-in-Chief

Dr. Demetrio Raldúa
Department Environmental Chemistry, IDAEA-CSIC, Jordi Girona 18, 08034 Barcelona, Spain

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Chemical Health and Safety)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).