





an Open Access Journal by MDPI

# **Characteristics and Formation of Secondary Organic Aerosols**

Guest Editors:

### Dr. Rongzhi Tang

School of Energy and Environment, City University of Hong Kong, Kowloon, Hong Kong, China

#### Dr. Wenfei Zhu

Shanghai Key Laboratory of Multiphase Flow and Heat Transfer in Power Engineering, School of Energy and Power Engineering, University of Shanghai for Science and Technology, Shanghai 200093, China

Deadline for manuscript submissions:

closed (22 September 2023)

# **Message from the Guest Editors**

Secondary organic aerosols (SOAs), formed from the multigenerational oxidation of gaseous precursors, account for a major proportion of submicron particles, can directly or indirectly affect air quality, climate change and human health. However, atmospheric models usually underestimate the measured SOAs due to missing precursors, formation mechanisms and the uncertainty in SOA vield. Although great efforts have been made in the last few decades, a great discrepancy still exists in the modeled and measured SOAs due to the complexity of the precursors and formation mechanisms. Therefore, there is an urgent need to establish the chemical and physical properties of SOAs, both from gas-phase precursors and from particle-phase evolution as a function of atmospheric conditions. A better understanding of the SOA formation mechanisms and characteristics will help to improve the prediction of aerosol loading and help mitigate air pollution around the world. The aim of this Special Issue is to present recent advances in the field of SOA formation. which encompasses SOA precursors from different sources. generated SOAs, and SOA follow-up effects.











an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Ilias Kavouras

Environmental, Occupational, and Geospatial Health Sciences, CUNY School of Public Health, New York, NY 10027, USA

# **Message from the Editor-in-Chief**

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

### **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), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank: CiteScore - Q2 (Environmental Science (miscellaneous))

#### **Contact Us**