

Special Issue

Urban VOC Emission, Transport, and Chemistry (VOC/ETC)

Message from the Guest Editors

Volatile organic compounds (VOCs) comprise a broad spectrum of non-methane hydrocarbons (NMHCs), oxygenated VOCs (OVOCs), and other organic compounds. The reactive species contribute significantly to the formation of ground-level ozone (O₃) and secondary organic aerosol (SOA), which in turn affects the regional and global climate. Some species are toxic, meaning that they pose adverse effects on human health. Urban VOCs can be emitted from both anthropogenic sources such as vehicles, solvents, fossil fuel burning, and various industrial processes, as well as biogenic counterparts like plants and trees.

Characterizations of VOC source emission, physical transport, and chemical fate are essential to elucidate their impacts on atmospheric pollution episodes, including photochemical smog and haze. In this Special Issue, we welcome the submission of papers focusing on VOC emission, transport, and chemistry (ETC) in the urban environment. The topics of interest for this Special Issue include, but are not limited to, VOC measurement and modeling, emission accounting, source apportionment, atmospheric transport, and chemical transformation.

Guest Editors

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Deadline for manuscript submissions

closed (23 August 2024)



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About the Journal

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!

Editor-in-Chief

Dr. Daniele Contini

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