Special Issue

Biogenic Volatile Organic Compound: Measurement and Emissions

Message from the Guest Editors

Biogenic volatile organic compounds (BVOCs) are emitted from both terrestrial and marine ecosystems and play vital roles in atmospheric chemistry, air quality, human health and global climate. Uncertainties remain in quantifying their emission rates, spatiotemporal variability, and interactions with anthropogenic pollutants. This Special Issue focuses on presenting recent developments in the measurement techniques (e.g., advanced sensor technologies, ground- and satellite-based remote sensing, and laboratory-based analytical techniques) and modeling approaches (e.g., process-based emission models and machine learning-driven simulations) of BVOCs. Studies exploring BVOC responses to environmental stressors (e.g., climate change, land-use shifts) and their feedback mechanisms on atmospheric composition are also within the scope of this Special Issue.

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Deadline for manuscript submissions

30 January 2026

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/241800

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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

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