

Special Issue

High-Resolution Modeling of Urban Air Quality: From Multi-Source Emissions to Scalable Prediction Systems

Message from the Guest Editor

Addressing the critical challenge of urban air pollution—where complex mixtures from traffic, industrial activities, and secondary aerosols interact across multiple spatial and temporal scales—requires advances in predictive modeling. This Special Issue of *Atmosphere* invites authors to submit transformative research that advances air quality modeling (AQM), an indispensable tool for public health protection and regulatory science. We seek innovations in high-resolution (

Guest Editor

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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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