

Special Issue

Urban Carbon Emissions: Measurement and Modeling

Message from the Guest Editors

Urban areas are significant contributors to global carbon emissions. As cities continue to expand, it is imperative to comprehend and address carbon emissions from urban areas towards global carbon neutrality. This Special Issue, “Urban Carbon Emissions: Measurement and Modeling”, seeks to explore cutting-edge methodologies and emerging technologies for the quantification of, analysis of, and reduction in urban carbon emissions. It aims to integrate interdisciplinary insights from environmental science, urban planning, transportation, and data science to foster a holistic understanding of urban carbon emissions. Topics of interest of the Special Issue include, but are not limited to, the following:

- Advanced technologies and methodologies for measuring urban carbon emissions;
- Innovative modeling and simulation techniques for urban carbon emissions;
- Quantification of carbon emissions from urban transportation systems;
- Assessment of carbon emissions from changes in urban land use.

We welcome original research articles, reviews, and case studies that contribute to the advancement of urban carbon emissions research.

Guest Editors

Dr. Ji Zheng

Dr. Yingjie Hu

Dr. Yifu Ou

Deadline for manuscript submissions

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

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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

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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