Special Issue

Vehicle Emissions Testing, Modeling, and Lifecycle Assessment

Message from the Guest Editors

This Special Issue focuses on advancing the understanding of vehicle emissions through real-world testing, sophisticated modeling techniques, and comprehensive lifecycle evaluation. It explores measurement methods for capturing accurate emissions data, innovative modeling approaches to predict and analyze patterns of emissions, and lifecycle assessment to evaluate the environmental impact of motor vehicles from production to the end-of-life stage. Submissions are encouraged on topics including, but not limited to, the following:

- Real-world measurement techniques for vehicle emissions;
- Advanced modeling methodologies for prediction and analysis of emissions;
- Lifecycle assessment frameworks for evaluating vehicle emissions and their environmental impact;
- Integration of testing and modeling for policy and mitigation strategies;
- Case studies on emissions reduction and sustainable vehicle technologies.

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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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