Special Issue

Vehicle Exhaust and Non-exhaust Emissions

Message from the Guest Editors

Vehicle emissions, including exhaust and non-exhaust emissions, are a significant source of air pollutants. The emissions from vehicle engine combustion can have harmful effects on human health and the environment. Thus, it is essential to understand the underlying mechanisms that contribute to the formation of both exhaust and non-exhaust emissions, which is beneficial to developing effective strategies to mitigate the vehicle-derived emissions. This Special Issue aims to collect original research papers focused on investigating vehicle-related emissions and the performance of an aftertreatment system. The topics of interest include, but are not limited to:

- Experimental studies on the characterization and quantification of emissions from various types of vehicles.
- Evaluation of vehicle aftertreatment system.
- Numerical simulation and modeling of emissions from vehicles.
- Theoretical analysis and modeling of the factors affecting vehicle-related emissions.
- Investigation on the effectiveness of various emission control technologies and strategies.
- Evaluation of the environmental and health impacts of vehicle emissions.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2023)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/168741

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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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