



## Particulate Emissions from Engines in Transportation

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### Message from the Guest Editors

In the field of internal combustion engines (ICEs), scientists have long been committed to research on particulate emissions under all types of combustion modes. The emission control legislation poses restrictions regarding the particle number (PN) of PM emissions from ICEs due to the severe adverse health effects associated with smaller particulates. The PN and PM regulations have become increasingly stringent. Particles from engine combustion mostly consist of graphitic carbon with a smaller quantity of metallic ash, sulfur compounds, and hydrocarbons. In addition, the release of fine and ultrafine particles from aircraft engines is the subject of numerous scientific studies due to its possible impact on the upper atmosphere and the local air quality in airport areas.

This Special Issue, entitled “Particulate Emissions from Engines in Transportation”, will provide insights into current trending topics in particulate matter, including spark ignition engines, compression-ignition engines, jet engines, etc. Moreover, the concepts, sources, physicochemical characteristics, and health effects of particulates are covered.





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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!

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