Special Issue

Engine Emissions and Air Quality

Message from the Guest Editors

Modern economy largely relies on the transport of goods and people, which is largely powered by internal combustion engines. As a result, road transport is a significant sector for energy consumption and greenhouse gas emissions, and is increasing due to economic and population growth. Meanwhile, exposure to poor air quality continues to be a critical issue concerning the public health worldwide. Motor vehicles, especially diesel vehicles, are the main source of air pollution in our cities. Therefore, great efforts have been undertaken to reduce energy consumption and pollutant emissions from motor vehicles, such as more stringent emission standards for new vehicles, inspection and maintenance (I/M) programs for in-use vehicles, new engine and vehicle technologies (e.g. engine downsizing, low temperature combustion, and hybrid and electric vehicles), better fuel quality and renewable fuels.

This Special Issue aims to collect original research and review papers on vehicle-related energy and environmental problems. All experimental and numerical studies that support fuel savings, emissions reduction, and air quality protection are welcome.

Guest Editors

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Dr. Ioannis Sempos (Sebos)

Deadline for manuscript submissions

closed (23 December 2021)

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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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