



Emission and Control of Air Pollution from Ships

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Message from the Guest Editor

Marine transportation is the main method of international cargo transportation owing to the advantages of large carrying capacity and low operating cost compared to other transportations. However, massive NO_x, PM, and SO_x emissions emitted from ships cause serious environmental pollutions in ports and coastal areas. Thus, emission aftertreatment technologies are needed to control air pollutant emission from ships.

The aim of this Special Issue is to provide recent advances in the field of emission aftertreatment technologies. This topic encompasses selective catalytic reduction with NH₃ (NH₃-SCR) for removal of NO_x, catalytic combustion of CH₄, desulfurization systems and CO₂ capture and storage, etc. The topic is also highly relevant to novel materials for emission aftertreatment technologies, such as nanostructured catalysts and adsorbents.

Topics of interest for the Special Issue include but are not limited to:

- Selective catalytic reduction for removal of NO_x;
- Desulphurization;
- CO₂ capture and storage;
- Catalytic oxidation of CH₄ and VOCs;
- Removal of PM;
- Nanostructured materials for elimination of air pollutants.





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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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