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Biomass Combustion and Emission Analysis

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Message from the Guest Editors

Biomass combustion processes have always been used to obtain energy; however, it is necessary to determine the impact on the environment and to study new abatement systems and optimize the current operating conditions in order to reduce the emission of these pollutants.

Combustion leads to the release of PM, NO_x, CO_2, CO, VOC, SVOC, and other pollutants, depending on the combustion and fuel conditions. These pollutants in the atmosphere participate in the complex atmospheric chemistry reactions and lead to the formation of secondary pollutants or negatively impact humans and the environment.

This Special Issue of *Atmosphere* will showcase the most recent studies and activities on the effects of combustion process. This Special Issue aims to collect studies that help to better understand the consequences of combustion both in boilers (through the study of emissive models, the development of new abatement systems, the determination of emission factors, etc.) and in open areas.

Deadline for manuscript submissions:
closed (20 June 2024)

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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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