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Biomass Combustion: Emissions, High-Temperature Aerosols, and Atmospheric Impact

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Message from the Guest Editors

Atmosphere is hosting a Special Issue to showcase the most recent studies and activities on biomass combustion's effects on the atmosphere. The Special issue aims to collect studies that help to better understand the consequences of biomass combustion in boilers (through the study of emissive models, development of new abatement systems, determination of emission factors, etc.) and in open burning phenomena, thus highlighting how this latter practice is harmful to the environment and humans.

The study of the emissions of macro pollutants, greenhouse gases, PM, heavy metals, POPs, carbon particles, and high-temperature aerosols in relation to combustion conditions and chemical-physical characteristics of biomass, or reviews of these studies, are the main topics of this Special Issue. The topics discussed represent a scientific basis on which to take important actions for the global energy sustainability of the future in harmony with the environment.

Deadline for manuscript submissions:
closed (19 July 2023)

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Special Issue

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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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