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Household Cooking and Space Heating: Effects on Air Pollution, Climate Change, and Human Health

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Deadline for manuscript submissions:
closed (31 May 2019)

Message from the Guest Editors

Cooking is a daily activity that is done with a wide variety of fuels across the planet. Some 40% of the world's population continues to cook with solid fuels, often in situations that create high levels of air pollution. Household space heating is also commonly accomplished by burning solid fuels in countries across the socioeconomic spectrum. The air pollution produced by household cooking and heating is of concern because of its impacts on human health and on environmental quality.

For this special issue, we are particularly interested in papers that address trends in household fuel use for cooking and/or heating; report new information or data on household fuel use; describe new methods for assessing air pollution (and human exposures) associated with household fuel use; investigate the impacts of household energy use on ambient conditions; and/or probe the climate change impacts of household fuel use. Solutions-oriented projects are also of interest, as are policy analyses related to household cooking and heating.

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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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