

Special Issue

Climate Change Mitigation, Air Pollution, and Health Impacts in the Heating System

Message from the Guest Editors

The need for mitigating greenhouse gas (GHG) emissions to achieve the climate goal of limiting warming to 1.5 or 2 °C has become even more pronounced and urgent in the post-COVID-19 era. Heating systems, which account for almost one-third of the end-use energy consumption in the residential sector and service industry and approximately 12% of global energy consumption, are expected to accelerate the low-carbon transition and play a vital role in mitigation. Meanwhile, the air pollution emitted from heating systems causes adverse health impacts, resulting in strong interactions between climate change, air pollution, and public health. The nexus provides opportunities to promote sustainability by incorporating air pollution control and health benefits in the design of a low-carbon transition in heating systems and climate policies. This Special Issue aims to advance the field of human health impacts of climate change mitigation and explore cooperation strategies that can be implemented within the heating systems to facilitate both climate change mitigation and public health promotion.

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