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Improving Air Quality and Public Health While Reducing Carbon Emission

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Deadline for manuscript submissions:
closed (1 March 2023)

Message from the Guest Editors

The increase in the average global surface temperature might reach 1.5 °C between 2030 and 2050, posing a serious threat to both natural and human systems, according to the Intergovernmental Panel on Climate Change (IPCC) 1.5 °C Special Report. Huge losses, maybe far more than the cost of mitigation, will ensue from inaction on climate change. Real restrictions on greenhouse gas (GHG) emissions, which are currently still increasing, must be put in place immediately as a result. Given the numerous typical anthropogenic sources of GHGs and air pollutants, CO2 mitigation strategies can also improve public health by lowering air pollution. This Special Issue aims to provide an update on the progress of air quality changes and public health improvements under carbon reduction measures. We encourage the use of chemical transport modeling and health risk assessment to quantify the impact of carbon reduction on health benefits and air quality.

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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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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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