Special Issue

Symmetry in Measurement of Combustion Derived Emissions

Message from the Guest Editors

Exploring combustion-derived emissions is critical in understanding and controlling air pollution and climate change. Air quality models, atmospheric observations, and emission inventories have been intensively conducted to address these related issues in the past two decades. However, investigation related to direct measurement of combustion-derived emissions has attracted much less attention. Combustion sources include solid fuels burned in domestic stoves and industrial boilers for energy or smelting, open biomass burning. Pollutants emitted from combustion sources include gaseous species and particulate matters, which have been recognized as filtrable PMs and condensable PMs. The knowledge bridge between pollutant impacts and combustion sources is still urgently required to be addressed. This Special Issue aims to provide a comprehensive collection of recent findings and progress on the measurement of combustion-derived emissions, offering fundamental support to evaluate emission impacts from anthropogenic sources.

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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