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Flue Gas Pollutant Control and Ultra-Low Emission Technology

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Message from the Guest Editors

Dear Colleagues,

With the development of industry and economy, air pollution has become one of the toughest problems. The typical air pollutants in coal-fired flue gas are sulfur dioxide (SO_2), nitric oxides (NO_x), trace heavy metals, particulate matters (PMs), and so on. The development of flue gas pollutant control and ultra-low-emission technology is of great significance for protecting human health, improving environmental quality, promoting industrial transformation and upgrades, and promoting sustainable development.

This Special Issue addresses recent theoretical and experimental developments of flue gas control technology and related processes. Topics include, but are not limited to, the following:

- Control of pollutants (SO_2, NO_x, trace heavy metals, VOC) in flue gas using wet processes such as complexation, oxidation, etc.
- Functional materials (biobased adsorbents, ionic liquid, MOF, COF, etc.) in the adsorption and catalytic conversion of gases (carbon dioxide, sulfur dioxide, nitrogen oxides, etc.).
- Environmental and economic impact assessment of ultra-low-emission treatment technology for flue gas.
- Technological transformation of ultra-low-emission flue gas.

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Message from the Editor-in-Chief

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