Journal of Combustion

Special Issue on

Clean Combustion in Thermal Power Equipment

CALL FOR PAPERS

Air pollutants from thermal power equipment are not only harmful for environment, but also have detrimental effects on human health, and there is a global trend to enforce more stringent regulations on these exhaust gas constituents. As a result, many clean combustion technologies, such as chemical looping combustion, mild combustion, porous media combustion, and plasma-assisted combustion, have been developed in the past 30 years. By application of these technologies, nitrogen oxide (NO_x), carbon dioxide (CO_2), and particulate matter (PM) emission from combustion can be mitigated effectively. Nowadays, clean combustion technologies are attracting more and more attentions from the researchers all over the world. To promote communication between researchers, we sincerely invite investigators to contribute original research articles as well as technical reviews that will advance the scientific development and technological availability of clean and efficient thermal power equipment technology.

Potential topics include, but are not limited to:

- Reaction kinetics in clean combustion
- Advanced numerical methods for clean combustion
- Clean combustion in micromechanics and microengineering
- Diagnostic techniques and sensors for clean combustion process
- Laminar and turbulent flame
- Heat and mass transfer in clean combustion
- Novel combustion concepts, technologies, and systems (including after-treatment system of automotive systems)
- Active/semiactive control of clean combustion instability
- Other clean combustion technologies (including chemical looping combustion, mild combustion, porous media combustion, and plasma-assisted combustion)

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/jc/ctpe/.

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