Special Issue

Flue Gases: Measurement and Treatment

Message from the Guest Editor

Combustion sources and industrial processes produce a large amount of flue gases, which contain particulate matter (PM) and various gas pollutants (e.g., SO2, NOx, Hg, and VOCs). Before being discharged to the atmosphere, flue gases needed to be treated with air pollution control devices (APCDs) to reduce those air pollutants to meet the requirements of emission standards. This Special Issue aims to collect original research and review papers on the most recent discoveries related to "Flue Gases: Measurement and Treatment". The topics of interest include but are not limited to the following:

- Offline sampling techniques for PM, PM10, PM2.5 and condensable PM;
- PM online sampling techniques;
- PM size distribution and composition;
- PM emission and removal technology;
- Hg emission and its measurement;
- Gas pollutant (including SO2, NOx, NH3, HCl, SO3, VOCs, etc.) measurement techniques;
- Sensors and detectors for the measurement of gas pollutants;
- Gas pollutant emissions;
- Flue gas desulfurization technology;
- DeNOx technology.

All studies with field measurements, laboratory experiments, model simulations, and technological developments are welcome.

Guest Editor

Dr. Xinghua Li
School of Space and Environment, Beihang University, Beijing 100083, China

Deadline for manuscript submissions

closed (25 May 2022)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/103796

Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

mdpi.com/journal/atmosphere

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/journal/atmosphere

MDPI

About the Journal

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!

Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))