Special Issue

Effects of Municipal Sludge on Air Pollutant Emissions Characteristics

Message from the Guest Editors

As sludge is used as high-ash fuel, a large amount of inhalable particulate matter with a diameter of less than 10 μm (PM10) will be generated during the combustion process. These emitted inhalable particulates are of great harm to human health. The fuel characteristics and combustion temperature have important effects on the formation of particulate matter. In addition, the complex minerals contained in the sludge will interact with each other under high-temperature combustion conditions, thus affecting the migration and transformation of particulate matter. Therefore, how to avoid secondary environmental pollution based on the characteristics of sludge has become a work with practical application value. Topics of interest of the Special Issue include but are not limited to:

- Development of technologies intended for applications to control particulate matter
- Synergistic emission reduction between particulate matter and other air pollutants (such as heavy metals, SO2, NOX)
- Management and recycling of municipal sludge wastes
- Transitional pathways to renewable energy future

Guest Editors

Dr. Li Jia

College of Electrical and Power Engineering, Taiyuan University of Technology, Taiyuan, China

Dr. Yue Yu

College of Economics and Management, Taiyuan University of Technology, Taiyuan 030024, China

Deadline for manuscript submissions

closed (30 September 2023)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/166865

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))