Special Issue

Air Quality in Urban-Industrial Areas: Monitoring, Source Apportionment and Management

Message from the Guest Editors

Urban industrial areas are a matter of concern due to the combination of poor air quality with high population density. Furthermore, natural sources and regional and long-range transport also affect local air quality. We propose this Special Issue to illustrate the role of monitoring and source apportionment as decision-support tools for air quality management in urban industrial areas, towards sustainable industrial development. Topics of interest include but are not limited to the following:

- Temporal analysis of air pollutants and their relation to meteorological parameters (namely in the formation of secondary pollutants);
- Industry-type characterization of pollutant emissions and chemical tracers (e.g., petrochemical, coking, metal smelting and steelworks, energy production, waste management);
- Aerosols chemical characterization (elements, ions, black carbon, OC/EC, PAHs, oxidative potential, etc.) for source apportionment and for health risk assessment;
- Biomonitoring of air pollution targeting the identification of pollution sources and their spatial distribution.

Guest Editors

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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

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