

Special Issue

Recent Advances of Air Pollution Studies in Italy

Message from the Guest Editors

Despite continuous improvements in recent decades, air pollution in Italy still represents a great concern as prescribed legal limits for main pollutant concentrations are repeatedly being exceeded. According to European Environmental Agency yearly reports and World Health Organization studies, the Po Valley region and a number of Italian cities have sadly become well known for being the worst in Europe in terms of air pollution and smog, constituting an economic and societal challenge for policymakers. Critical air pollutant concentration levels primarily have consequences for human health, in terms of health care costs, morbidity and premature deaths. The impact of air pollution on agriculture, natural and built-up environments is particularly severe when considering acid rain, eutrophication, haze, effects on wildlife, crop and forest damages, and, last but not least, climate change. Contributions from observations, field experiments, and chemical-transport modeling, including artificial intelligence and machine learning, or data science investigations are all welcome.

Guest Editors

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Dr. Maria Gabriella Villani

Dr. Teresa Lo Feudo

Dr. Elena Chianese

Deadline for manuscript submissions

closed (29 February 2020)



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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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