

Special Issue

Aerosols and Their Radiative and Air Quality Impacts: Bridging Science and Policy

Message from the Guest Editor

This Special Issue is soliciting papers showcasing recent results related to the science of and policy surrounding aerosol radiative forcing and air quality impacts. The overall objective is to highlight recent advances at the intersection of aerosol research and policy decisions. Potential topics include, but are not limited to, trends in aerosol and aerosol precursor emissions, long term monitoring of trends in aerosol concentrations using in situ and remote sensors, process studies on radiative forcing and air quality impacts of aerosol emissions, and modeling of aerosol direct radiative effects and aerosol–cloud interactions. Linkages between measurement and modeling results and how they have informed policy decisions are particularly suitable for this Special Issue. Policy decisions could range from those related to improving air quality or the feasibility of solar radiation management through marine cloud brightening. Scales of aerosol impacts can range from local to regional or to global.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2025)



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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

Dr. Daniele Contini

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