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Chemical-Physical and Optical Properties of the Aerosol in Europe and the Arctic

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Deadline for manuscript submissions:
closed (9 October 2020)

Message from the Guest Editors

Dear Colleagues,

The chemical–physical and optical properties of the aerosol drive its direct and indirect climatic effects. As the aerosol may be long-range transported and the aerosol properties at any latitude may influence the planetary energy budget, both local and regional studies are welcome. As a matter of fact, the final radiative impact on a warming Artic is an actual and important issue on a global scale.

Thus, the present issue is dedicated to any study, either from experimental or modeling activities, in which aerosol properties (even in function of different sources/origins) and their optical/climatic impact are investigated from Southern Europe to the northernmost Arctic.

As most of the aerosol properties are often reported at ground level, vertical profiles measurements/simulations and cruise-based data are welcome.

Finally, aerosol chemical–physical properties should be investigated both by bulk and single particle approaches. Multidisciplinary studies which link size segregated aerosol properties (chemical–physical), fluxes, and hygroscopicity with their optical–climatic properties are encouraged.

Dr. Luca Ferrero
Guest Editor

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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!

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