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Environmental Magnetism Applied to the Study of Atmospheric Aerosols

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Deadline for manuscript submissions:
closed (1 August 2021)

Message from the Guest Editors

Dear Colleagues,

Tackling air pollution is fundamental to ensure our health. In the ensemble of methodologies employed to this end, environmental magnetism may play a role. Aerosols have remarkable magnetic properties related to the content of magnetic particles arising from both anthropogenic and natural processes.

Magnetic properties have shown to depend on PM composition, and therefore, source contribution.

Atmosphere is hosting a Special Issue with the aim of reviewing the state of the art in this subject, showing the extent and the potentiality of these methodologies.

Original results and review papers related to environmental magnetism applied to the air quality field are welcomed. Contributions relating magnetic properties to specific health-relevant PM constituents (heavy metals, PAHs,...) are highly encouraged. We also encourage the presentation of papers connected to the magnetic monitoring of the effects of the recent lockdown measures due to the COVID pandemics on air quality.

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Guest Editors

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Special Issue

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Editor-in-Chief

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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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