Special Issue

Electromagnetic Observations and Their Applications in Earthquake Research (2nd Edition)

Message from the Guest Editors

This Special Issue a follow-up of (https://www.mdpi.com/journal/atmosphere/special_issues/01U66W8D8C) and is to collect the recent progress on understanding electric/magnetic and ionospheric disturbances during earthquake preparation and occurrence processes. Studies on background or non-earthquake influences are also welcomed which can supplement our knowledge for the better identification of earthquake anomalies.

- Electric or magnetic observations on the ground and studies of their features, waves/disturbances, or potential earthquake applications.
- Observations of electromagnetic waves or disturbances in space, and studies of their generation, propagation, or relationships with earthquakes.
- Ionospheric observations and studies based on ground receivers, ionosonde or low-Earth-orbit satellites.
- Infrared or hyperspectral parameter observations and analyses.
- Integrated observations from multi-spheres, and studies on their influence factors.
- Low-frequency (ULF/ELF/VLF) electromagnetic wave propagation models and electric/magnetic coupling mechanisms in geospheres.

Guest Editors

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Deadline for manuscript submissions

closed (27 June 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

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