



Electromagnetic Observations and Their Applications in Earthquake Research

Guest Editors:

Dr. Xin-Yan Ouyang

Institute of Earthquake
Forecasting, China Earthquake
Administration, Beijing 100036,
China

Prof. Dr. Xuemin Zhang

Institute of Earthquake
Forecasting, China Earthquake
Administration, Beijing 100036,
China

Dr. Peng Han

Department of Earth and Space
Sciences, Southern University of
Science and Technology,
Shenzhen 518055, China

Deadline for manuscript
submissions:

31 October 2024

Message from the Guest Editors

Dear Colleagues,

The aim of this Special Issue 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.

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



mdpi.com/si/169042

Dr. Xin-Yan Ouyang
Dr. Xuemin Zhang
Dr. Peng Han
Guest Editors

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ilias Kavouras

Environmental, Occupational,
and Geospatial Health Sciences,
CUNY School of Public Health,
New York, NY 10027, USA

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!

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

Contact Us

Atmosphere Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
[X@Atmosphere_MDPI](https://twitter.com/Atmosphere_MDPI)