



Remote Observation of Volcanic Emissions and Their Impacts on the Atmosphere, Biosphere and Environment

Guest Editors:

Dr. Pasquale Sellitto

Dr. Giuseppe Salerno

Dr. Letizia Spampinato

Dr. Salvatore Giammanco

Dr. Chiara Giorio

Deadline for manuscript
submissions:

closed (20 November 2023)

Message from the Guest Editors

Volcanic eruptions are complex time-dependent events with impacts that can extend at different spatial and temporal scales. Over the years, remote sensing technology advances and know-how have led to improvement of both the availability and the quality of the observations, thus allowing better recognition of precursors of eruption onset and better assessment of volcanic activity. Volcanic plumes, once produced from crater gas and particulate emissions, can impact air quality, cloud formation, and radiative balance at different spatial–temporal scales. Volcanic plumes can travel from close-range to global distances, while undergoing chemical and microphysical changes. The remote observation of the dispersion/evolution of volcanic plumes is key to understanding their downwind impacts.

This Special Issue aims at presenting the state of the art of and recent advancements in volcano remote sensing, as well as multidisciplinary volcano studies coming from the exploitation of these remote sensing methodologies, with a special focus on volcanic emissions and dispersing/evolving plumes, and the impacts of volcanic pollutants on the atmosphere, the biosphere, and the environment.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank: JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)

Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
[X@RemoteSens_MDPI](https://twitter.com/RemoteSens_MDPI)