Special Issue

Analyzing Aerosol–Cloud–Climate Interactions through Remotely Sensed Data

Message from the Guest Editors

The impact of aerosols on cloud properties is one of the largest uncertainties in the anthropogenic radiative forcing of the climate. Significant progress has been made in constraining this forcing using observations, but uncertainty remains, particularly around the magnitude of cloud rapid adjustments to aerosol perturbations. To accurately quantify cloud responses to aerosols, there is a need for an improved detection of both spatial and temporal quantities of cloud water content, albedo, and cloud and aerosol particle numbers. This Special Issue seeks papers dedicated to concurrent measurements of aerosols and clouds using either passive or active remote sensing sensors from space-borne, airborne, balloon-borne, and UAV platforms, as well as ground-based sensors, with a special emphasis on high temporal resolution measurements that can detangle meteorological effects from aerosol effects on clouds. We welcome papers covering scopes of liquid, mixed-phase, and cirrus cloud properties under various aerosol conditions (pristine and polluted) and at various geographical locations (equator and high latitudes).

Guest Editors

Dr. Michal Segal-Rosenheimer
Bay Area Environmental Research Institute, Mountain View, CA 94035, USA

Dr. Haochi Che
Department of Geosciences, University of Oslo, Blindernveien 31, 0371 Oslo, Norway

Deadline for manuscript submissions

closed (20 June 2024)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/179140

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

mdpi.com/journal/remotesensing

MDPI

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/journal/remotesensing

MDPI

About the Journal

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.

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

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)