Special Issue

Land-Atmosphere Interactions Under Fire Regimes: From Surface Disturbances to Climate Feedbacks

Message from the Guest Editor

Wildfires are persistent natural disasters and major sources of greenhouse gases and pollutants, posing significant risks to both climate and human health. The aim of this Special Issue is to highlight the critical role of fire in the Earth system. We welcome manuscripts that explore various aspects of land-atmosphere interactions related to wildfires. Suggested themes include, but are not limited to, the following:

- Advances in representing fire processes in Earth system models and chemistry-climate models;
- Feedbacks between land ecosystems and wildfires under climate change;
- Environmental impacts of fire-induced ecosystem disturbances:
- Evaluation of the climate effects of wildfires across all relevant forcings.

Guest Editor

Dr. Junri Zhao

Graduate School of Environmental Studies, Department of Earth and Environmental Sciences Climate Science, Nagoya University, Nagoya, Japan

Deadline for manuscript submissions

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

mdpi.com/journal/ climate





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About the Journal

Message from the Editor-in-Chief

Climate (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of Climate is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

Editor-in-Chief

Dr. Timothy G. F. Kittel

Institute of Arctic and Alpine Research, University of Colorado Boulder, Boulder, CO 80309-0450, USA

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), GeoRef, AGRIS, and other databases.

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JCR - Q2 (Meteorology and Atmospheric Sciences) / CiteScore - Q2 (Atmospheric Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.6 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).

