Special Issue

Patterns, Drivers, and Multiscale Impacts of Wildland Fires

Message from the Guest Editors

Global warming combined with inter-annual climate phenomena such as El Niño Southern Oscillation (ENSO) cause increased risks of wildfires hazards worldwide. Recent fire seasons have shown a new scale of widespread wildfires around the globe with special examples in the tropics, wetlands such as the Pantanal, the Mediterranean region, and the boreal forests of Canada, Siberia, and also the Nordic Countries. Dealing with increasing fire frequencies and areas burned, land ecosystems require novel assessment approaches in anticipating fire risks at local and regional scales, as well as better understanding of fire impacts on the ecosystem and their services, including biodiversity. This special issue aims at featuring historical and current patterns of wildfire dynamics, methodologies to identify local and regional fire-related drivers of ignition and fire propagation, impact assessments of burned areas, GHG emissions, and hazard effects. This includes articles using mechanistic fire modeling, remote sensing and ground-truthing, statistical and data analysis, machine learning methods, emissions modeling/GHG assessments, as well as empirical work.

Guest Editors

Dr. Florian Kraxner
Dr. Andrey Krasovskiy
Dr. Bacciu Valentina

Deadline for manuscript submissions

closed (28 February 2025)

Fire

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 3.9

mdpi.com/si/189451

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

mdpi.com/journal/fire

Fire

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 3.9

mdpi.com/journal/fire

About the Journal

Message from the Editor-in-Chief

Fire is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire*'s Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

Editor-in-Chief

Dr. Grant Williamson
School of Biological Sciences, University of Tasmania, Private Bag 55, Hobart, TAS 7001, Australia

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), AGRIS, PubAg, and other databases.

Journal Rank:

JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

MDPI