Special Issue

Fire Evolution, Protection, and Post-Disaster Disposal of Engineering Structures

Message from the Guest Editors

The fire safety of critical infrastructure is a growing challenge under extreme, realistic fire scenarios. This Special Issue provides a dedicated platform for recent advances in fire evolution, structural protection, performance-based engineering, and post-disaster rehabilitation. We welcome experimental, numerical, theoretical, and practical contributions aimed at building safer, more sustainable engineering structures throughout their life cycle. Key Topics Include:

- Structural response & fire resistance assessment of buildings, bridges, and tunnels.
- Advanced fire protection materials, systems, and smart monitoring technologies.
- Fire dynamics, smoke control, and evacuation in confined environments.
- Post-fire damage evaluation, repair, and resilience-oriented design.

Suggested Themes:

- Performance-Based Engineering under Real Fires
- Advanced Fire-Resistant Materials & Protection
- Risk Assessment & Mitigation for Major Infrastructure
- Post-Fire Assessment, Rehabilitation, & Resilience
- Smart Monitoring & Intelligent Fire Protection Systems

We look forward to advances in practical solutions to reduce fire risks and improve infrastructure recovery capacity.

Guest Editors

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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

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