

Special Issue

Fire and Explosion Safety with Risk Assessment and Early Warning

Message from the Guest Editors

Fire and explosion safety are crucial for protecting lives and property and maintaining social stability. However, with the rapid development of industrial technologies, urbanization, and the widespread use of new energy and chemical materials, the risks of fire and explosion accidents have become more complex, posing challenges to traditional safety methods. Therefore, research on fire and explosion safety mechanisms, risk assessment optimization, and early warning technology development is urgently needed.

This Special Issue aims to compile the latest research in fire and explosion safety, focusing on fire safety mechanisms, explosion protection, risk assessment methods, and early warning technologies. Specific themes include fire dynamics, explosion mechanisms, fire-resistant materials, risk assessment models, numerical simulations, and intelligent early warning systems using big data and AI.

We hope this Special Issue will promote academic exchange, drive innovation, enhance safety capabilities, and provide a scientific basis for industry standards and public safety policies.

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

Dr. Grant Williamson

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