

Special Issue

Fire Safety Design Based on Scaled Fire Spread Data

Message from the Guest Editor

Fire safety is a multifaceted challenge demanding continuous innovation in design, materials science, and predictive modeling. This Special Issue seeks to advance the field by exploring the combustion characteristics and thermal decomposition of both traditional and novel materials. It will highlight the development of next-generation refractory materials and sustainable fire-safe materials. We also encourage submissions that leverage advanced simulation-based fire analysis—including computational fluid dynamics and machine learning—to deepen our understanding of fire dynamics, ignition, spread, and structural performance under extreme thermal loads. Additionally, contributions on innovative fire-safety design principles and proactive management strategies for both built and wildland environments are welcome. This Special Issue aims to bridge fundamental research with practical applications, fostering the development of integrated, science-based solutions for enhanced societal resilience against fire risks. We invite original research and review articles addressing these critical themes.

Guest Editor

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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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