Special Issue

Fire Safety and Risk Management in Emerging New Energy Systems

Message from the Guest Editor

The transition toward sustainable energy has accelerated the adoption of emerging technologies such as electric vehicles (EVs), battery energy storage systems (BESS), hydrogen energy, and renewable energy infrastructures, including solar and wind power. These innovations are central to achieving global carbon neutrality goals and reducing reliance on fossil fuels. However, the integration of these technologies introduces new and complex fire hazards that differ fundamentally from those in conventional energy systems, posing significant safety challenges to both industry and society. To ensure the safe and sustainable deployment of new energy systems, it is critical to advance our understanding of fire behavior, ignition mechanisms, propagation pathways, and suppression strategies. This Special Issue aims to bring together cutting-edge research on fire safety science, risk management, and regulatory development, providing a platform to foster innovation and guide the design of resilient, fire-safe new energy technologies for real-world applications.

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

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