Special Issue

Fire, Polymers, and Retardants: Innovations in Fire Safety

Message from the Guest Editor

The widespread use of polymeric materials in modern applications from consumer products raises significant concerns regarding fire safety due to their inherent flammability. While traditional fire retardants have played a vital role in mitigating these risks, some of these are either environmentally questionable or inadequate in high-performance contexts. With growing regulatory pressures and safety demands, the focus is now on the development of novel polymers and environmentally benign fire retardant systems. Recent advancements in fire safety have moved beyond conventional additive-based approaches toward multifunctional strategies. Such advancements are reshaping the design paradigm for fire-retardant polymers by enhancing fire resistance while preserving mechanical properties and environmental compliance. This Special Issue of *Fire* aims to collect papers and reviews on polymer-based fire safety systems, with a particular emphasis on sustainable and high-performance fire retardant technologies.

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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