

## Special Issue

# Fire Hazard of Polymer Composites and Nanocomposites

### Message from the Guest Editor

The extensive use of polymer materials in our everyday lives is driven by a combination of their remarkable properties, e.g., low weight or easy processing. However, most polymers are flammable, which is extremely dangerous for people using them. The high flammability of most polymers is a consequence of their chemical build. The high content of carbon and hydrogen in their structures makes them combustible. The combustion of polymeric materials results in the production of corrosive and toxic gases as well as smoke. Smoke very often is a carrier of cancerogenic and mutagenic organic gaseous destructs, mainly from the PAHs and PCDDs/Fs groups. The development of flame-retardant materials and the understanding of phenomena that take place during the combustion of polymer composites require collaboration between macromolecular and physical chemistry, as well as physics of mass and heat transfer, rheology, etc.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 July 2024)



## Fire

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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.

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### Editor-in-Chief

Dr. Grant Williamson

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