Special Issue

Fire-Safe Polymer Composites: Structure and Application

Message from the Guest Editors

Fire safety arouses increasing concern due to its versatility and the destructiveness of fire. Newly emerging fire retardants based on novel molecule design as well as the rational construction of the hierarchical nano-assembly by the prevailing MOFs, Mxenes, and black phosphorous nanosheets demonstrate excellent performance. Particularly, specific application fields (e.g., lithium-ion batteries, fabrics, and road pavement materials) have been involved in the distinct fire-retardant treatment and design under the regulatory requirements. The fire safety in some featured scenarios such as in tunnels, coal mines, and forests that are associated with the spread of fire is within the scope of this Special Issue. Papers reporting on sensors to intelligently detect fire occurrence are desirable for inclusion in this Special Issue. Above all, this Special Issue of Polymers aims to collectively disseminate the state-of-the-art research concerning fire-safe polymer composites and applications in manifold fields toward deepening the scientific and technological understanding of fire-safe conceptualization, fire-suppression mechanisms, and fire-protection applications.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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