



Flame-Retardant Properties of Polymer Composites

Guest Editor:

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Deadline for manuscript
submissions:

closed (25 January 2024)

Message from the Guest Editor

Polymer composites play an essential role in various fields (aerospace, electronics, construction and transportation, etc.) due to their excellent performance, such as low cost, dimensional stability, chemical corrosion resistance, etc. However, the defects of flammability limit their wider applications. Up to now, flame retardants are regarded as an effective means to improve the flame retardancy of polymer composites. In order to minimize potential health and environmental impacts, flame retardancy, smoke suppression, safety, and recycling characteristics need to be considered at the beginning of the design process of flame retardants. Therefore, the fundamental design and understanding of the flame-retardant properties of polymer composites, as well as the effects on other properties, such as mechanical properties, thermal stability, smoke suppression, etc., are key focus areas in our research.

This Special Issue aims to cover the latest advancements in the preparation, properties, and applications related to functional polymer composites and high-performance materials (flame-retardant, environmentally degradable, etc.) with respect to the urgent requirement for fire safety.





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Message from the Editor-in-Chief

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