Special Issue

Flame-Retardant Properties of Polymer Composites

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.

Guest Editor

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Deadline for manuscript submissions

closed (25 January 2024)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/157669

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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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