Special Issue

Polymeric Flame Retardant

Message from the Guest Editors

Thermoplastic polymers and their composites have attracted remarkable attention due to their interesting properties which are required in various applications. However, their high fire hazard and huge emissions of smoke and toxic gasses (CO2 and CO) upon combustion have restricted their use and application. Therefore, various flame retardant materials have been used to overcome this technical dilemma via dispersion in the polymer matrix in order to enhance the flame retardancy behavior. Lately, considerable efforts have been dedicated to the use of various nanomaterials to overcome failures in the mechanical strength of objects such as organoclay, graphene sheets, carbon nanotubes, commercial graphite, and some metal nanoparticles as flame retardant fillers adhering to condensed-phase action. **Potential topics can include but are not limited to:**

- Inorganic nanotube-based flame retardant materials;
- Graphene sheet-based flame retardants;
- Clay layer-based flame retardant materials;
- Mxene-based flame retardant materials;
- Nanoparticle-based flame retardant materials;
- Green flame retardant materials;
- Antibacterial flame retardant materials.

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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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