Special Issue

Influence of Fillers on Thermal Properties and Flammability of Polymer Composites

Message from the Guest Editor

Different types of polymer material fillers can play an important role in protecting polymer materials from fire. They also contribute to reducing the flammability of these materials. Such substances can be clay, silica, boron compounds, microspheres, carbon nanotubes, graphene or polyhedral oligomeric silsesquioxanes and many others.

The main point of this Special Issue concerns the issue of influence of fillers on thermal properties and flammability of polymer composites. Scientific papers or reviews presenting the latest developments in the field of polymers or flammability of polymer composites and methods of their delay are invited for submission to this Special Edition.

During thermal degradation or burning of polymers, gaseous components with varying toxicity are released. The fillers used in polymers, depending on their nature, can reduce or increase the toxicity of gaseous mixtures formed, in a manner independent of their effect on flammability. The results of tests on the toxicity of gaseous products arising in fire conditions are particularly of interest.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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