



an Open Access Journal by MDPI

Influence of Fillers on Thermal Properties and Flammability of Polymer Composites

Guest Editor:

Prof. Dr. Witold Żukowski

Faculty of Chemical Engineering
and Technology, Cracow
University of Technology,
Warszawska 24, 31-155 Cracow,
Poland

Deadline for manuscript
submissions:

closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

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.



mdpi.com/si/34773



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

Message from the Editorial Board

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)