

Special Issue

Design and Development of Flame-Retardant Polymer Materials

Message from the Guest Editors

This Special Issue is dedicated to cutting-edge developments in the realm of flame-retardant polymer materials. It aims to spotlight the latest research, innovative methodologies, and groundbreaking technologies that are redefining safety standards in the polymer industry. We invite contributions that address the design, synthesis, characterization, and application of flame-retardant materials with a focus on enhanced performance, environmental sustainability, and compliance with international safety regulations. Topics of interest include, but are not limited to, the following: Novel flame retardants for various polymeric systems; Mechanistic studies on flame inhibition and material combustion; Eco-friendly and non-toxic flame retardant agents; The influence of additives on the thermal and mechanical properties of polymers; Tailoring of polymer architecture for inherent flame retardancy; Multifunctional materials integrating flame retardancy with other desirable attributes; Evaluation and testing methodologies for flame retardant efficiency. We are pleased to invite you to submit manuscripts for this Special Issue, in the form of research papers and review articles.

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About the Journal

Message from the Editor-in-Chief

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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