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Current Developments in Polyurethane Materials for Different Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (20 August 2022)

Message from the Guest Editor

Polymers containing a urethane bond in the macromolecules' structure are among the most used materials due to their favourable performance properties. Polyurethanes (PUs) are composed of rigid and flexible segments. Rigid segments give the materials mechanical and thermal resistance, while flexible segments affect the flexibility and elongation at break. PUs are an important class of functional polymers, whose properties can be improved by adding nanomaterials, fire retardants, etc.

It is my pleasure to invite you to submit to this Special Issue research articles as well as review papers on advancing the performance of polyurethane materials and their composites. Topics can include, but are not limited to:

- Chemical modifications of polyurethane materials and their effects on performance;
- Novel additives and their influence on polyurethane materials performance properties;
- Polyurethane materials characterization, especially using novel techniques;
- Processing of polyurethanes for use in different applications, such as the building, automotive, bedding and footwear industries,
- New applications of polyurethane materials or the improvement of existing solutions.

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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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