Special Issue

Green Conversion of Polymeric and Textile Waste into Functional Materials

Message from the Guest Editors

Conventional waste management and recycling systems are often ineffective in managing plastic and textile waste. In this context, green conversion technologies are gaining attention as a sustainable approach to transform waste into high-value, functional materials. Typically, functional materials exhibit specific physical or chemical properties that enable them to perform particular functions beyond structural roles. These materials are critical in a wide range of applications, including energy storage, catalysis, sensing, electronics, biomedical devices, and environmental remediation. This Special Issue, “Green Conversion of Polymeric and Textile Waste into Functional Materials”, aims to provide a platform for researchers and practitioners to share their latest findings, methodologies, and insights in the field of green plastic and textile waste valorization. By showcasing leading-edge studies and pioneering innovations, the Special Issue aims to stimulate novel research directions and enhance the visibility of solutions that are crucial for fostering collaboration, which is essential for achieving a sustainable future.

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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