Special Issue

Valorization of Waste and Plant Biomasses for Functional Polymer-Based Material Development

Message from the Guest Editors

This Special Issue aims to highlight contributions exploring how waste and/or plant biomasses can be transformed into valuable resources for producing functional materials. Valorization involves recovering functional and structural components from organic wastes, such as agricultural residues or wood, and converting them into high-value products like biofuels, biodegradable plastics, or advanced materials. This approach addresses sustainability and waste management by reducing pollution and utilizing renewable resources efficiently. Functional materials derived from biomasses offer eco-friendly, cost-effective alternatives for industries like electronics, construction, biomedical, and packaging. The scope includes various valorization processes, such as extraction and thermochemical conversion, and advanced materials like nanocomposites, polymers, and thermoplastics. Applications range from energy storage and water purification to packaging and health products. Both original research and review papers are welcome.

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
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