

Special Issue

Green Chemistry Strategies for Biomass Valorization

Message from the Guest Editors

The urgent need to transition from fossil-based resources to renewable feedstocks has positioned biomass valorization at the center of sustainable chemistry. Green chemistry strategies are essential to unlock the potential of diverse biomass streams, ranging from agricultural and forestry residues to marine and food industry by-products, and to transform them into high-added value chemicals, materials, bio-based products, and bioenergy. This Special Issue, "*Green Chemistry Strategies for Biomass Valorization*", welcomes contributions that highlight innovative, efficient, and environmentally benign approaches for biomass processing and conversion. By bringing together cutting-edge research in chemistry, chemical engineering, and biotechnology, this Special Issue aims to provide a platform for the dissemination of novel methodologies and technologies that advance the sustainable valorization of biomass within the principles of green chemistry. Contributions in the form of original research articles, short communications, and critical reviews are highly encouraged.

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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