



Advanced Technology for the Biomass-Based Chemicals, Fuels and Materials

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Message from the Guest Editors

The tremendous CO₂ emission from the use of fossil fuel and the treatment of the end chemicals/materials has aroused wide public concerns over the world. Biomass, a renewable and sustainable resource with carbon neutral feature, is considered as an alternative feedstock to prepare value-added chemicals, high-grade fuels and functional materials. Different technologies have been developed for this purpose: fermentation, catalytic hydrogenation/oxidation, pyrolysis/solvothermal treatment, crosslinking/blending/doping, etc. This resource revolution paves the way to ensure the viable and sustainable development of the greener industry for social progress.

This Special Issue on “Advanced Technology for the Biomass-Based Chemicals, Fuels and Materials” includes but is not limited to:

1. Pretreatment technologies of biomass for its further utilization
2. Catalytic upgrading of biomass-based chemicals
3. Biofuels and biogas from biomass feedstock
4. Biomass-based materials for chemical engineering and environment





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Message from the Editor-in-Chief

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