

Special Issue

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

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:

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

Guest Editors

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