



**Reaction Pathways and Mechanisms in
Thermocatalytic Biomass Conversion II:
Homogeneously Catalyzed Transformations,
Acrylics from Biomass, Theoretical ... (Green
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Volume II presents the latest advances in catalytic hydrodeoxygenation and other transformations of some cellulosic platform chemicals to high value-added products. It presents the theoretical evaluation of the energetics and catalytic species involved in potential pathways of catalyzed carbohydrate conversion, pathways leading to the formation of humin-based by-products, and thermal pathways in deriving chemicals from lignin pyrolysis and hydrodeoxygenation. Catalytic gasification of biomass under extreme thermal conditions as an extension of pyrolysis is also discussed.

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