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eprints@whiterose.ac.uk https://eprints.whiterose.ac.uk/ For the increased demand of oil-derived chemicals, plant biomass is an ideal alternative source. Lignin constitutes ca 35% of dry woody biomass and is produced as a non-commercial waste by-product from the Kraft Pulping industry. The polyphenolic chemical structures of lignin are built from guaiacolpropane linking with C-C bonds and ether C-O bonds, which resist the degradation of woody biomass. Guaiacol represents around 40% of the phenolic monomers within digested lignin. We have investigated commercially viable processes for the hydrogenolysis of poly–oxygenated aromatic compounds formed from digested lignin, to provide a selective and high yielding formation of the fine chemicals, e.g. benzene, anisole and benzoic acid etc.

