Supporting Information

Exploiting the Photocatalytic Activity of TiO_2 Towards the Depolymerization of Kraft Lignin

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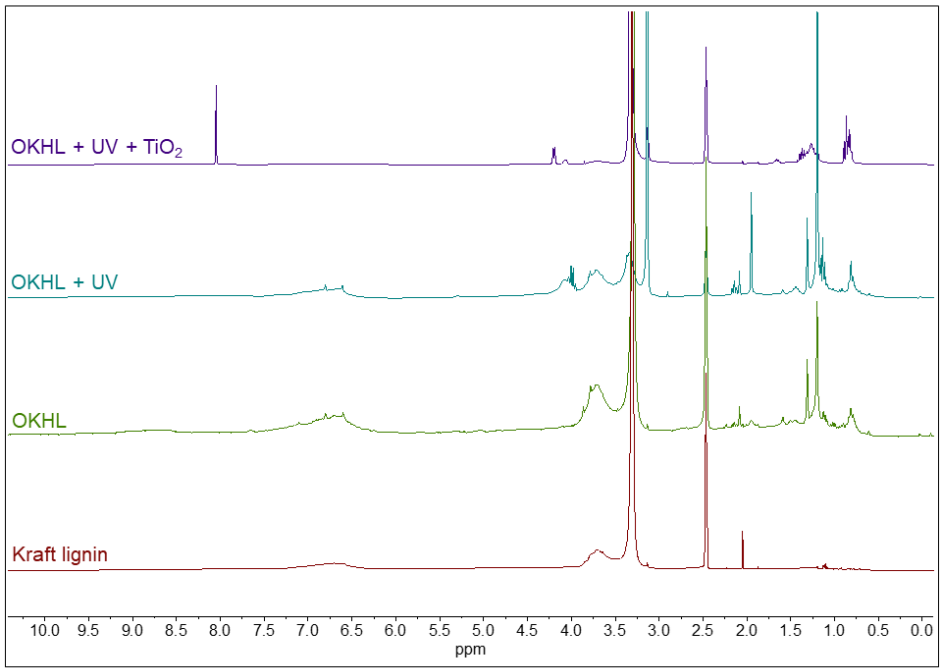

Figure S1: ^{1}H NMR of Kraft lignin, oxidized Kraft lignin, UV treated Kraft Lignin and UV treated Kraft lignin in the presence of TiO_2.

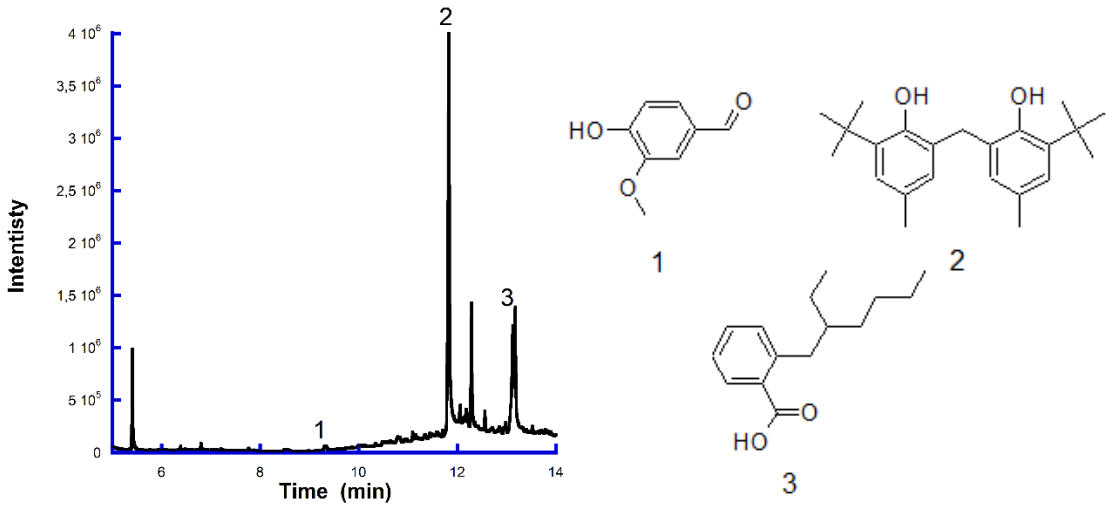

Figure S2: Chromatogram of the oxidized lignin products generated in the presence of AuNP/HT catalyst and chemical structure of three identified products.

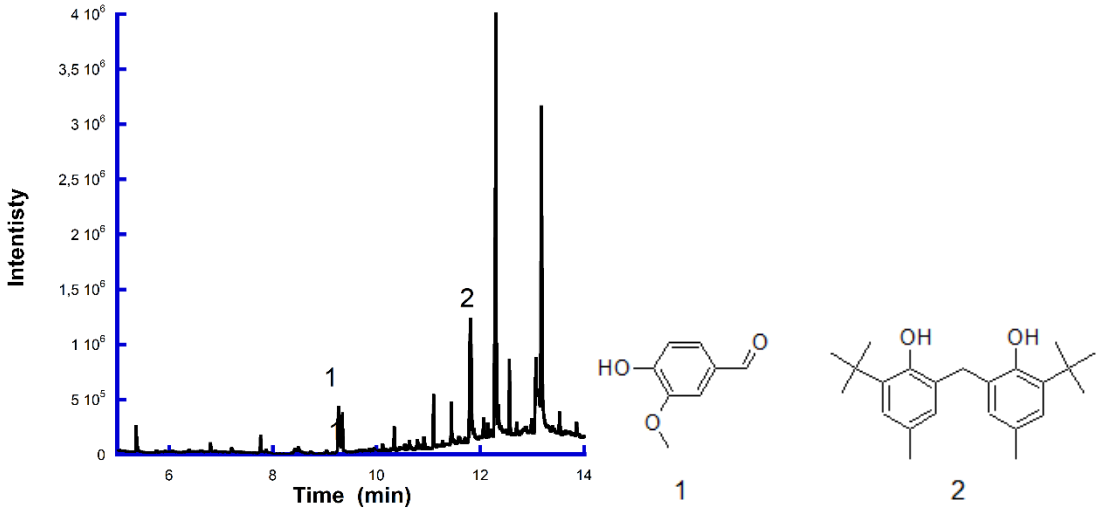

Figure S3: Chromatogram of the oxidized lignin products generated under UV irradiation and chemical structure of two identified products.

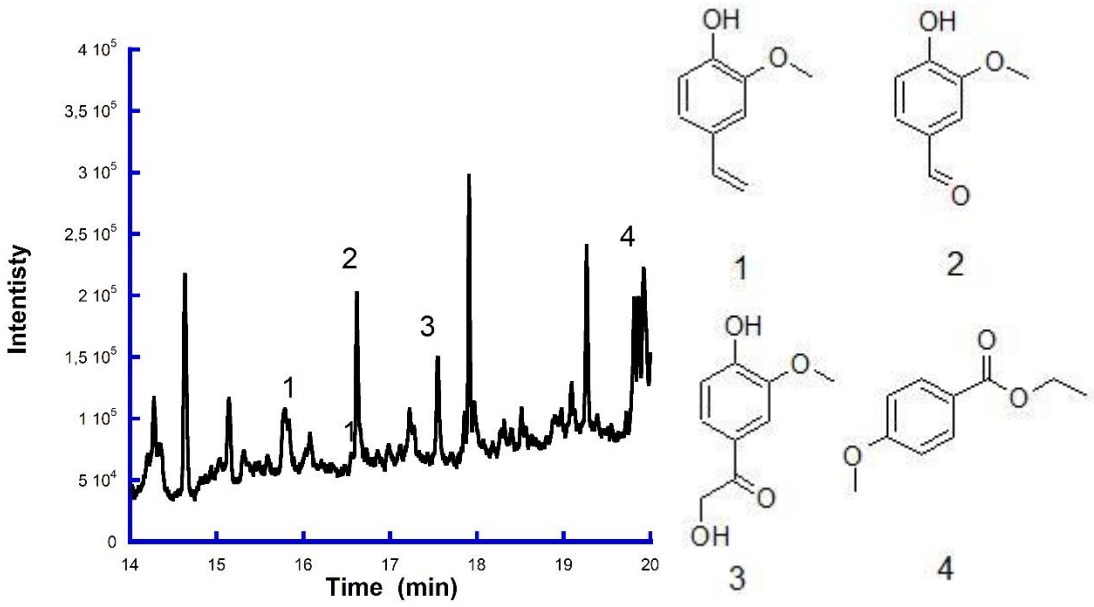

Figure S4: Chromatogram of lignin oxidized under UV irradiation in the presence of TiO_2 and chemical structure of four identified products.