**TITLE:**

Biomass Conversion to Produce Hydrocarbon Liquid Fuel via Hot-Vapor Filtered Fast Pyrolysis and Catalytic Hydrotreating

**Supplemental file**

**Figure S1.** Picture of the biomass feeder of the pyrolysis system

**Figure S2.** Picture of the pyrolyzer of the pyrolysis system

**Figure S3.** Picture of the cyclone of the pyrolysis system

**Figure S4.** Picture of the hot-vapor filter of the pyrolysis system

**Figure S5.** Picture of the condensers of the pyrolysis system