

Supporting Information:

**Treatment of Coffee Husk with Ammonium-Based Ionic Liquids:
Lignin Extraction, Degradation, and Characterization**

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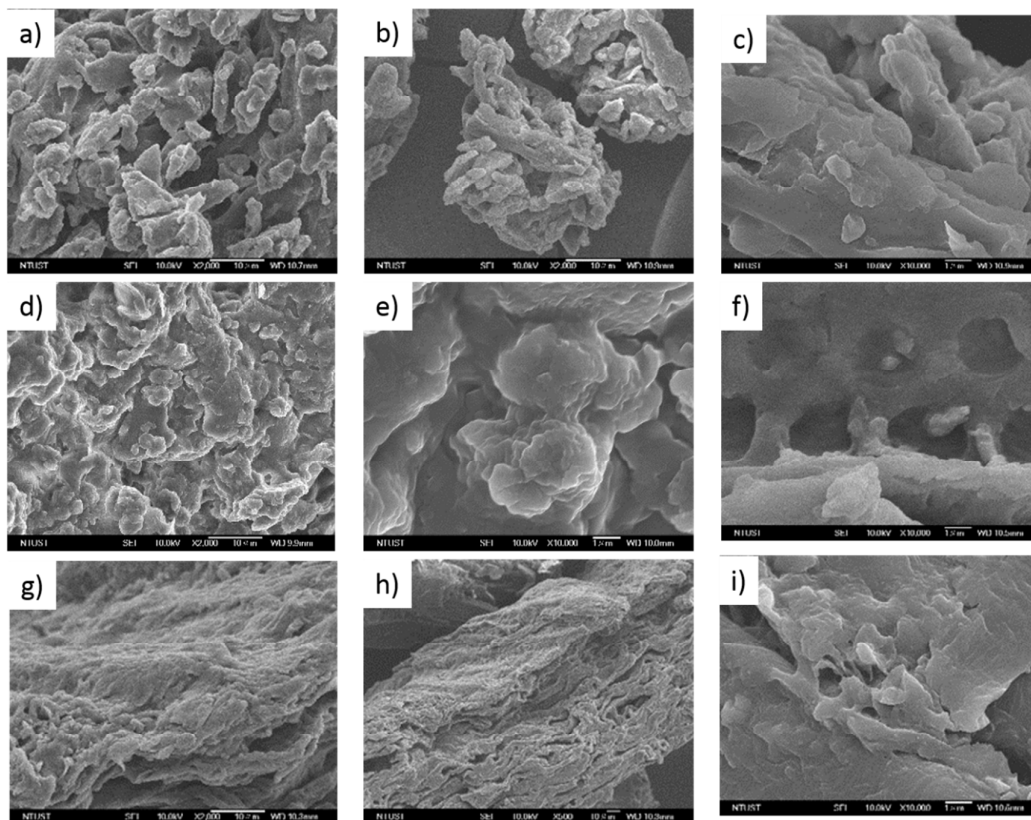


Figure S1 Field emission-scanning electron microscope micrographs for coffee husk (a-c), [DIPEA][Ac] extracted lignin (d-f) and carbohydrates enriched materials (g-i) (h: $\times 500$; a, b, d, g: $\times 2,000$; c, e, f, i: $\times 10,000$).

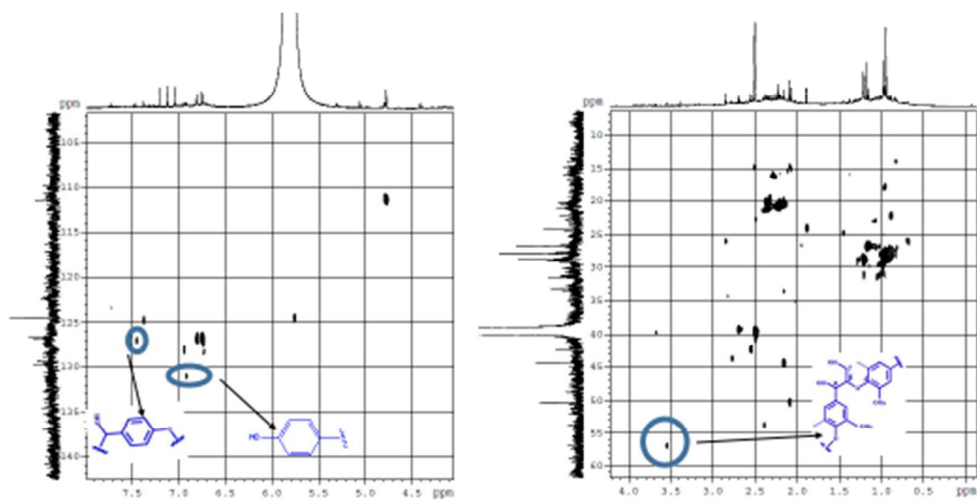


Figure S2 HSQC NMR spectrum of lignin fraction extracted by IL at 120 °C after 4 h treatment.