

Electrostatic deposition of the oxidized kraft lignin onto surface on aminosilicas: thermal and structural characteristics of hybrid materials

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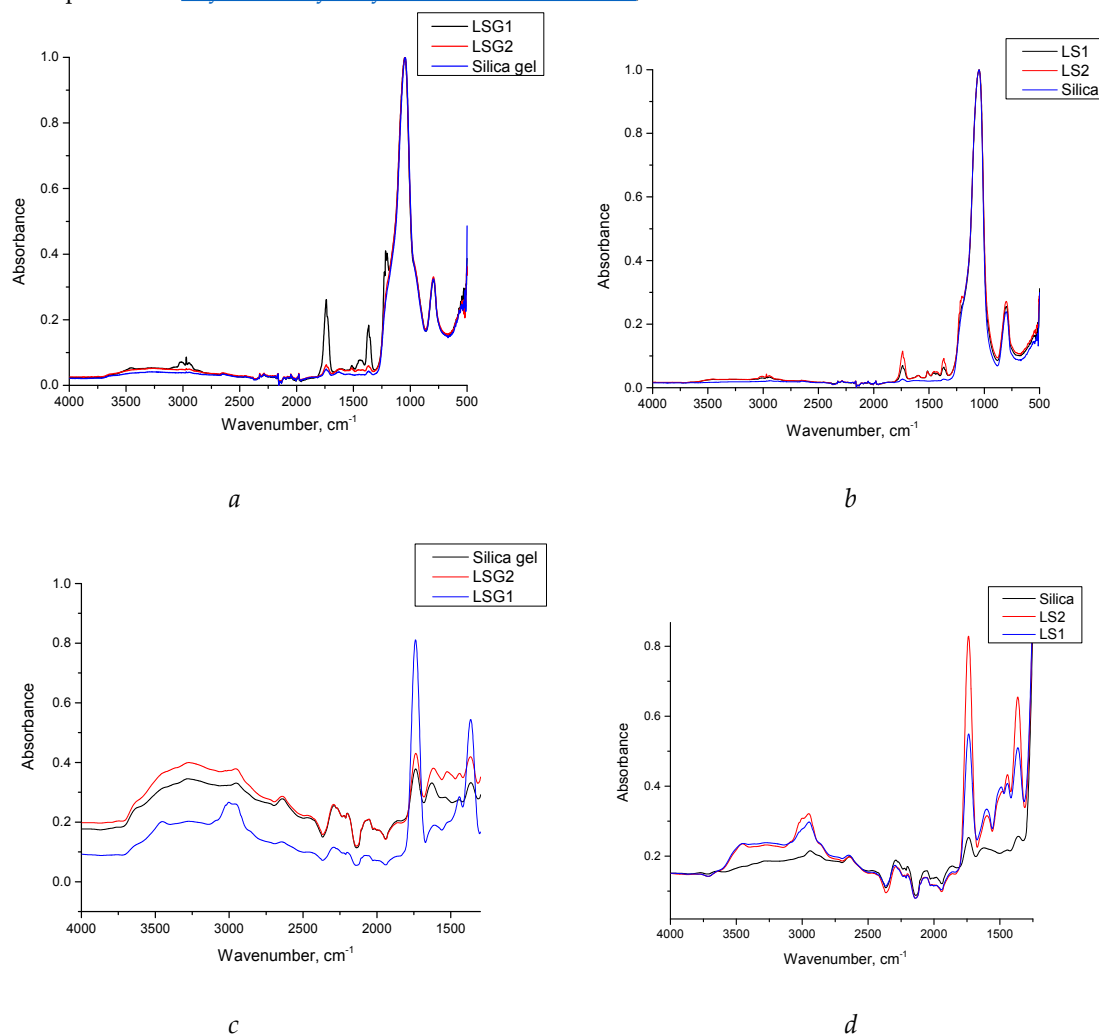


Figure S1. FTIR spectra of synthesized (a,c) lignin-silica gel composites, (b,d) lignin-silica composites and initial materials plotted at wavenumber ranges (a,b) 4000–500 cm⁻¹ and (c,d) 4000–1250 cm⁻¹.

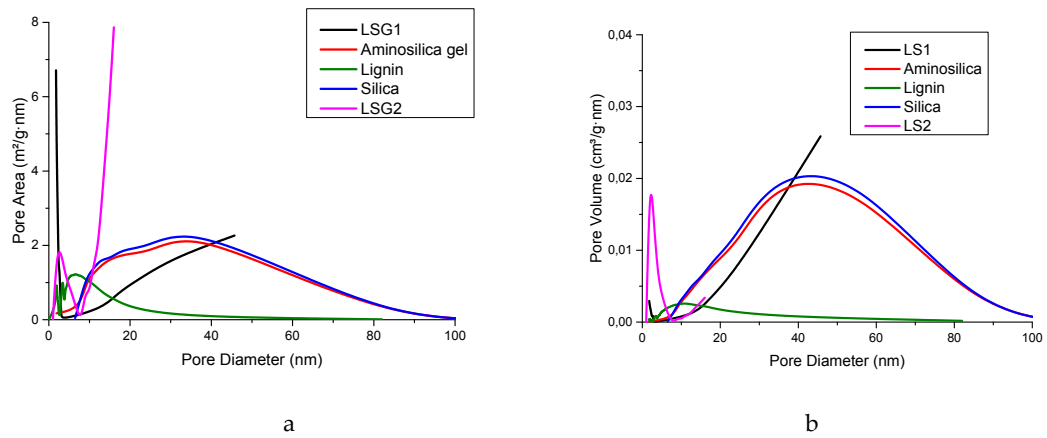


Figure S2. Pore size distribution by area and volume for (a) lignin-silica gel, (b) lignin-silica and initial lignin, silica, aminosilica and aminosilica gel.

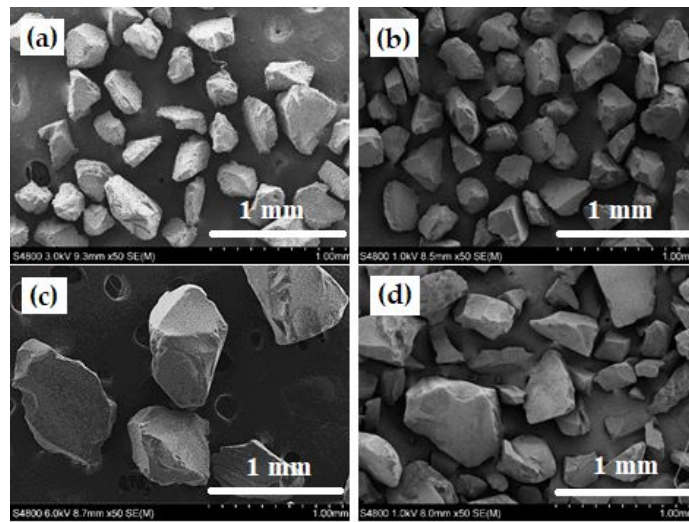


Figure S3. SEM images of LB-silica gel (a, b) and LB-silica composites (c, d).