

Synthesis of spherical superconductors

Rebecca Boston,^{a,b} Antony Carrington^c, Dominic Walsh^{*b} and Simon R. Hall^{*b}

Supplementary Information

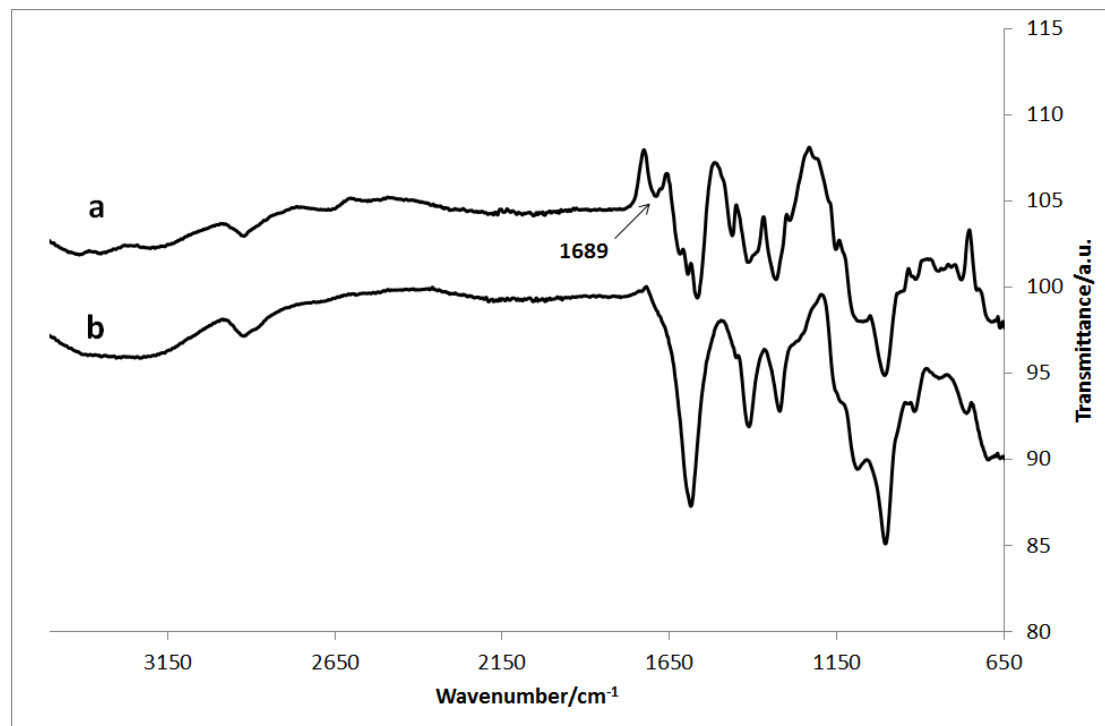


Figure S1. IR spectra of dried (a) CM-dextran/YBCO composite and (b) CM-dextran control sample. The appearance of the peak at 1689 cm^{-1} is indicative of the presence of COO^- groups in the CM-dextran chelated to metal centres (see for example J. Control. Rel. **69**, 97, 2000).

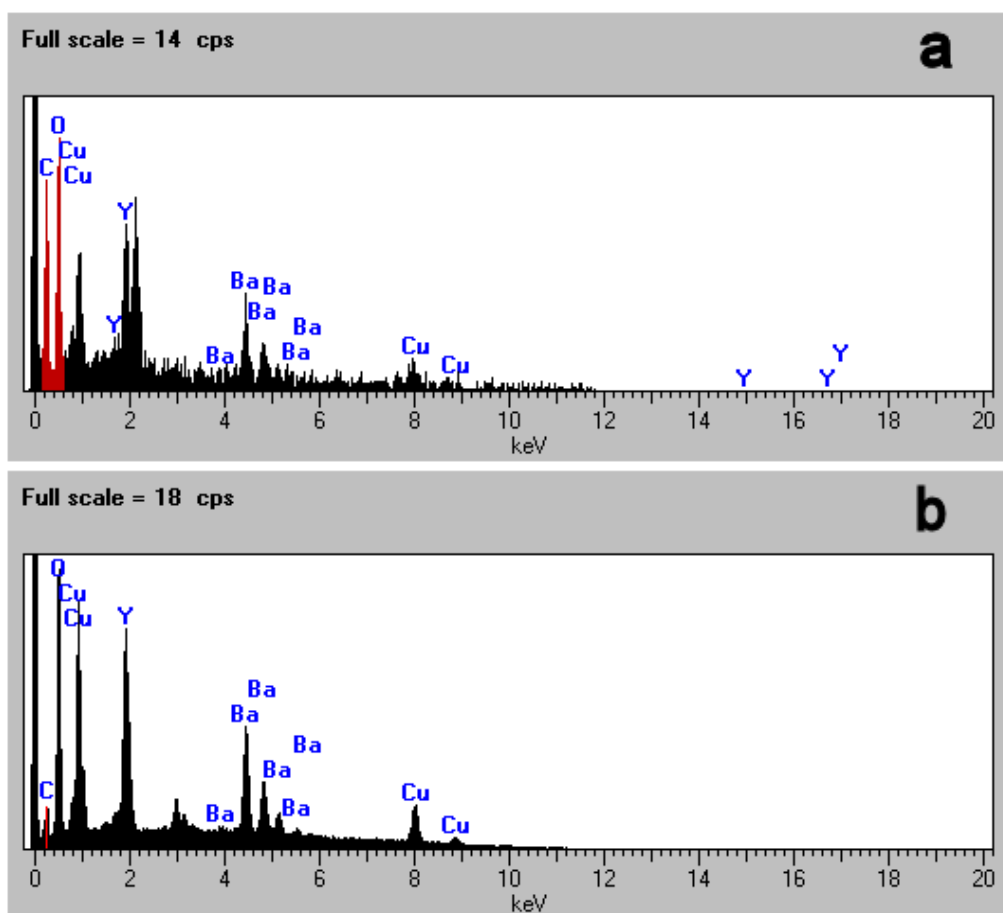


Figure S2. Energy dispersive X-ray analyses showing elemental composition of the YBCO spheres under calcination after (a) 800 °C and (b) 820 °C. The significant reduction of carbon can be attributed to loss of CO₂ after decomposition of BaCO₃ at 811 °C.