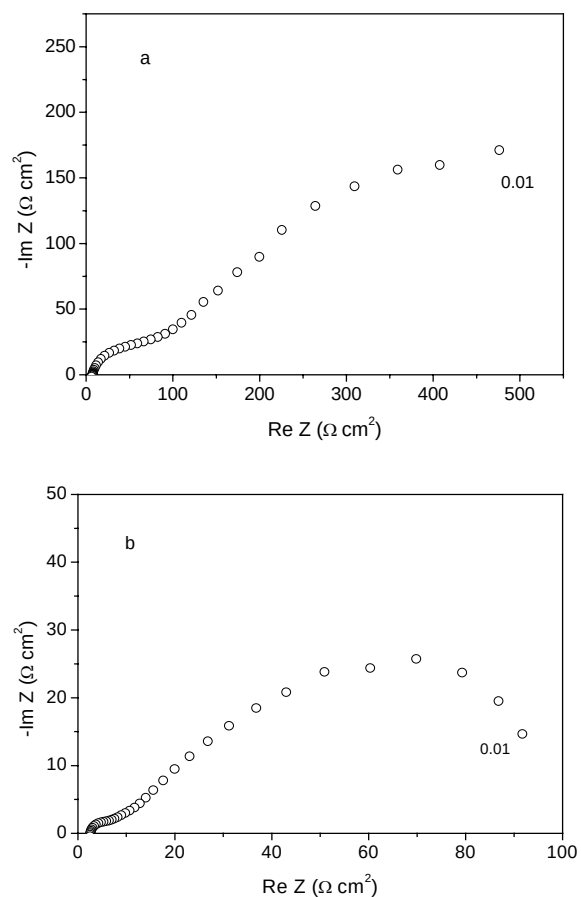




Supplementary Figure. 3 Impedance spectra of symmetric cells in which silver alone as served as the cathode ($\sim 10\text{-}30\mu\text{m}$ cathodes deposited onto both sides of a 1 mm SDC electrolyte) under air atmospheres, measured at (a) 500°C, and (b) 600°C. The ASRs at these temperatures, $\sim 1\text{k}\Omega.\text{cm}^2$ and $\sim 100\Omega.\text{cm}^2$, respectively, are many orders of magnitude higher than the values of 0.51-0.60 and 0.055-0.071 $\Omega.\text{cm}^2$, respectively, measured for BSCF.

