

Figure S1: Schematic of oxygen permeation examination of the tubular membrane

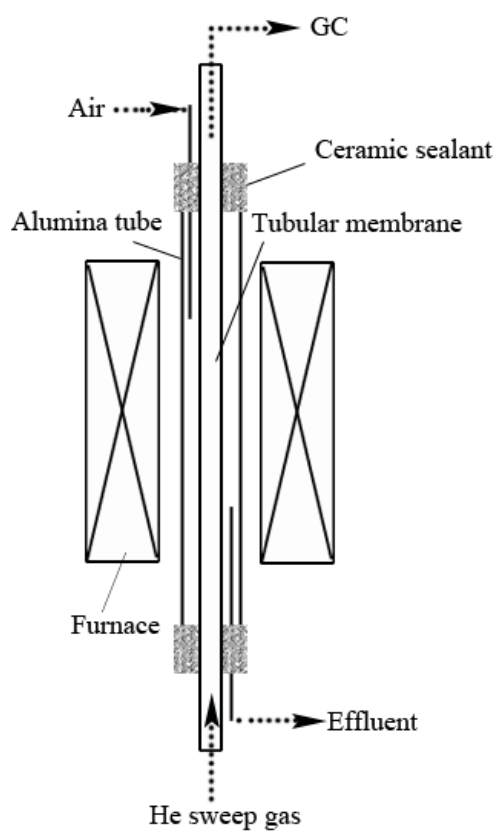


Figure S2: O₂-TPD profiles of CGO-LBSFZ composites sintered at 1400 °C

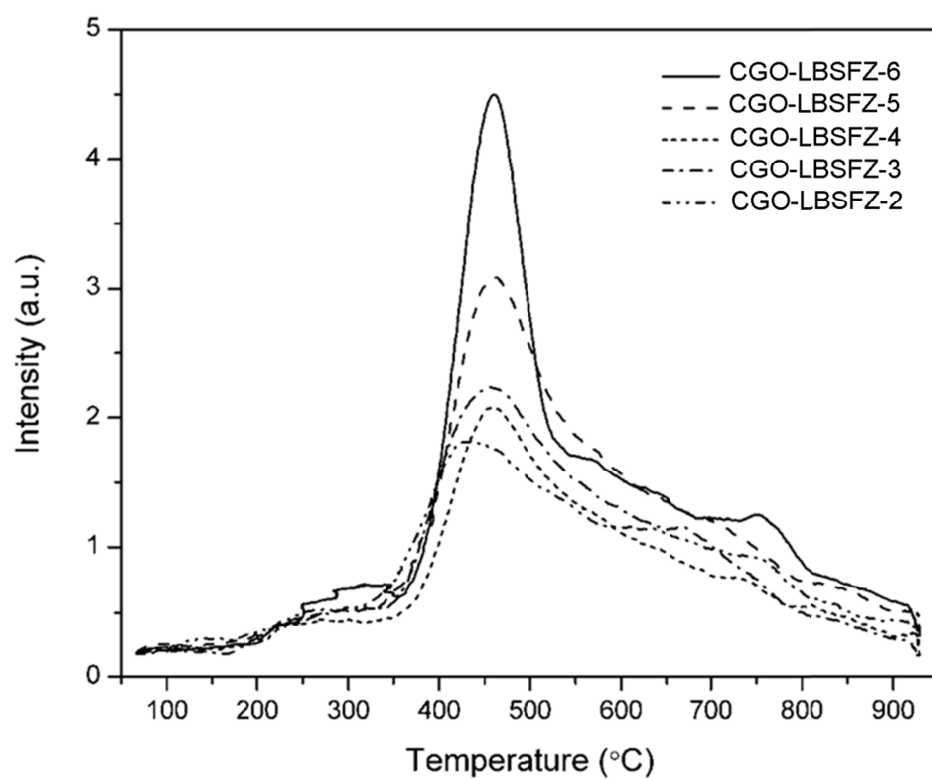


Figure S3: Oxygen permeation fluxes of CGO-LBSFZ membranes as a function of temperature.

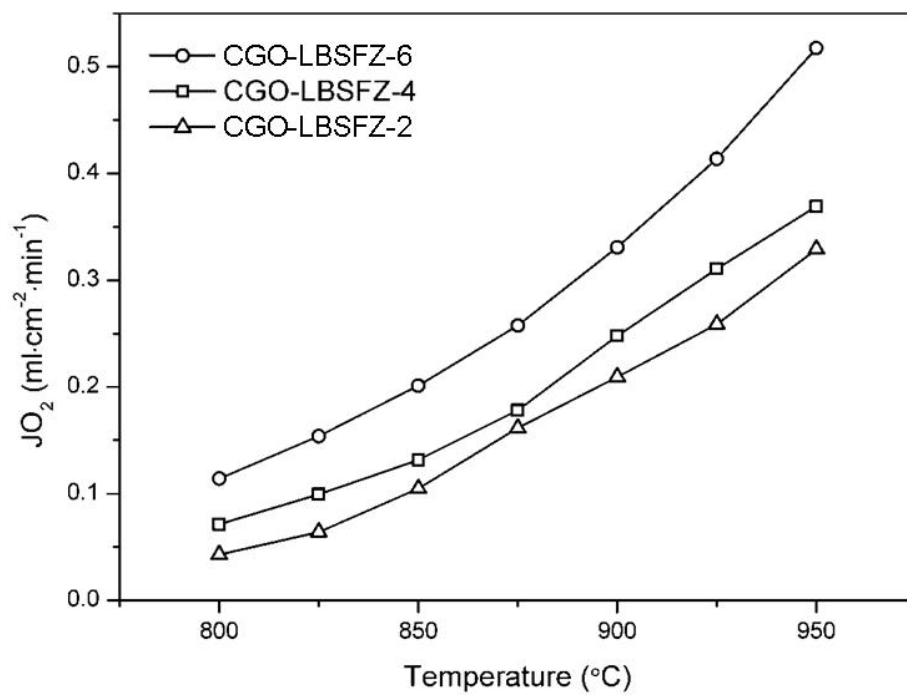


Figure S4: POM reaction of CGO-LBSFZ-6 membrane at 950 °C with 50% CH₄-He feed gas.

