Electronic supplementary information for:

A new layered barium cobaltite electrode for protonic ceramic cells

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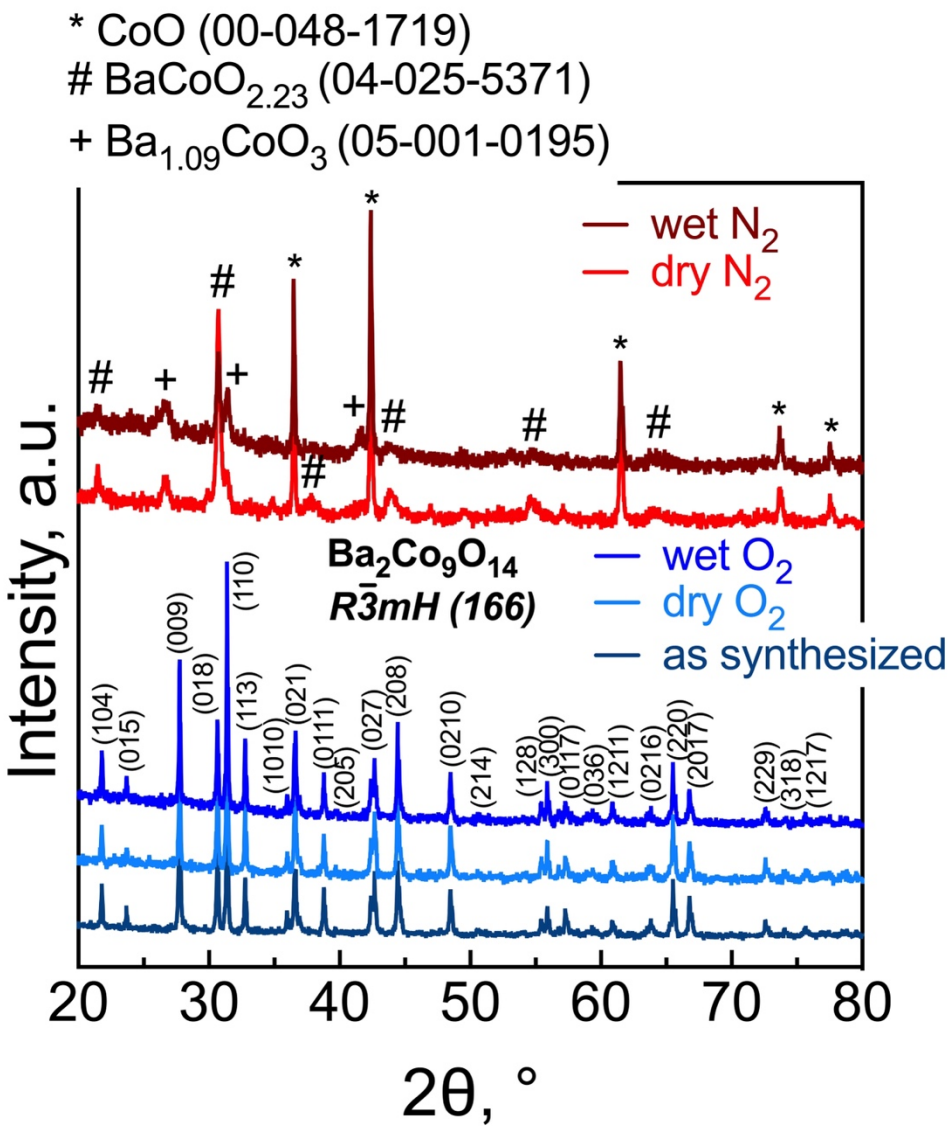

Fig. S1. Room temperature PXRD patterns of $Ba_2Co_9O_{14}$ as synthesized and after TG measurements in dry O_2, wet O_2, dry N_2, and wet N_2. ICDD cards were used for identification of secondary phases after treatments in N_2.

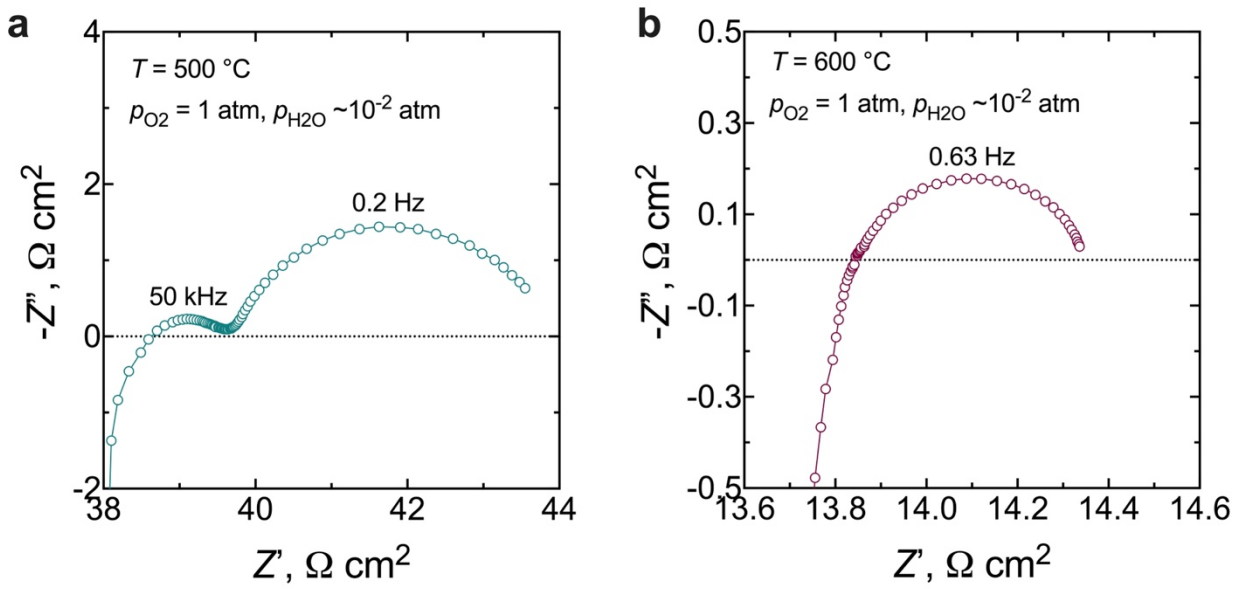

Fig. S2. Impedance spectra in wet oxygen at: a, 500 °C; b, 600 °C.

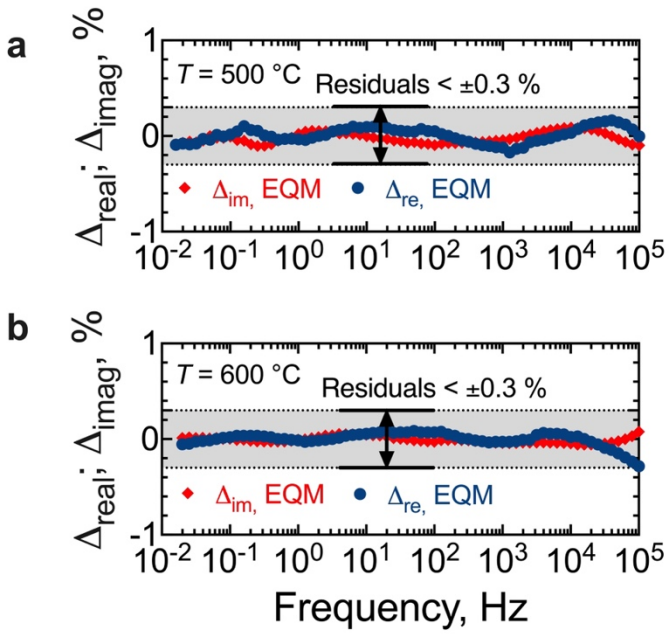

Fig. S3. Residual plots from the Equivalent Circuit Model (EQM): a, 500 °C; b, 600 °C in oxygen.