

**Co-electrolysis of steam and CO₂ in full-ceramic symmetrical SOECs: A strategy
for avoiding the use of Hydrogen as a safe gas.**

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Supplementary information

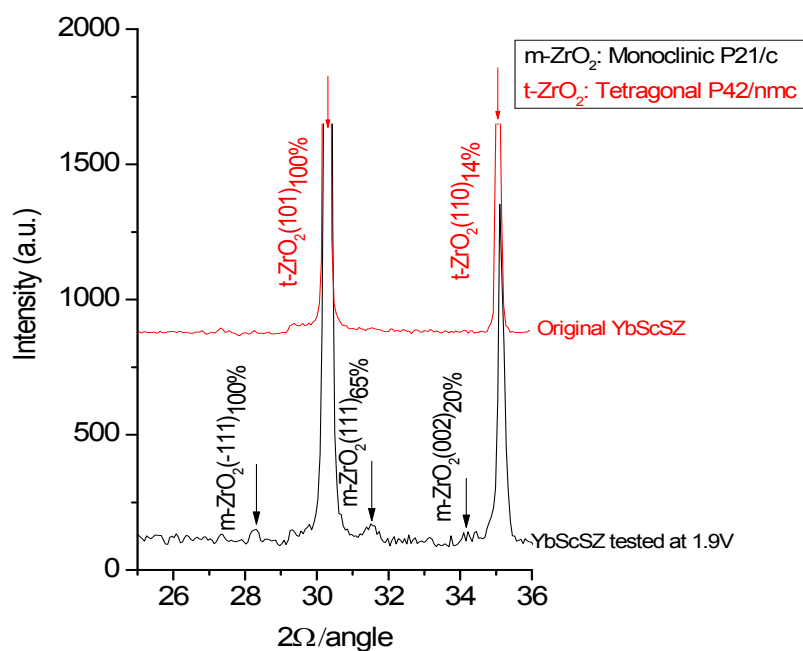


Figure S1. Detail of the XRD pattern of the original and tested YbScSZ at high voltage (1.9V) electrolyte where can be detected some evidences of monoclinic phase formation through the three main peaks of m-ZrO₂ not present in the original XRD pattern.