A high active CH$_4$ catalyst correlating with Solid oxide fuel cells anode performance

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Fig. 1. The XRD patterns of P-SZMO, H₂ reduced SZMO, LSGM and the mixture of P-SZMO+LSGM after firing at 1100 °C for 10 hours.

Fig. 2. The particle size of SZMO powder evaluated by SEM with the scale bar at (a) 20 μm and (b) at 3 μm, respectively.
**Fig. S3.** The final products of CH₄ oxidization by SZMO anode tested from 650 to 800 °C.

**Fig. S4.** The half-cell EIS with Ni-SDC and SZMO as symmetric electrodes exposing in H₂ and tested at 800 and 850 °C.