

## SUPPORTING INFORMATION

### Highly active Pd-ZrO<sub>2</sub> electrodes for hydrogen evolution reaction

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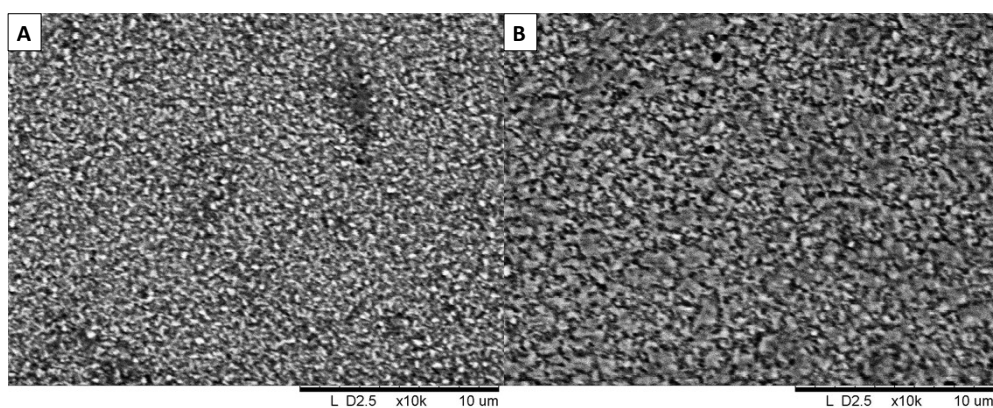


Figure S1. SEM image of Pd@ZrO<sub>2</sub>/FTO as pristine deposit of 50 and 200 nm thicknesses respectively A and B

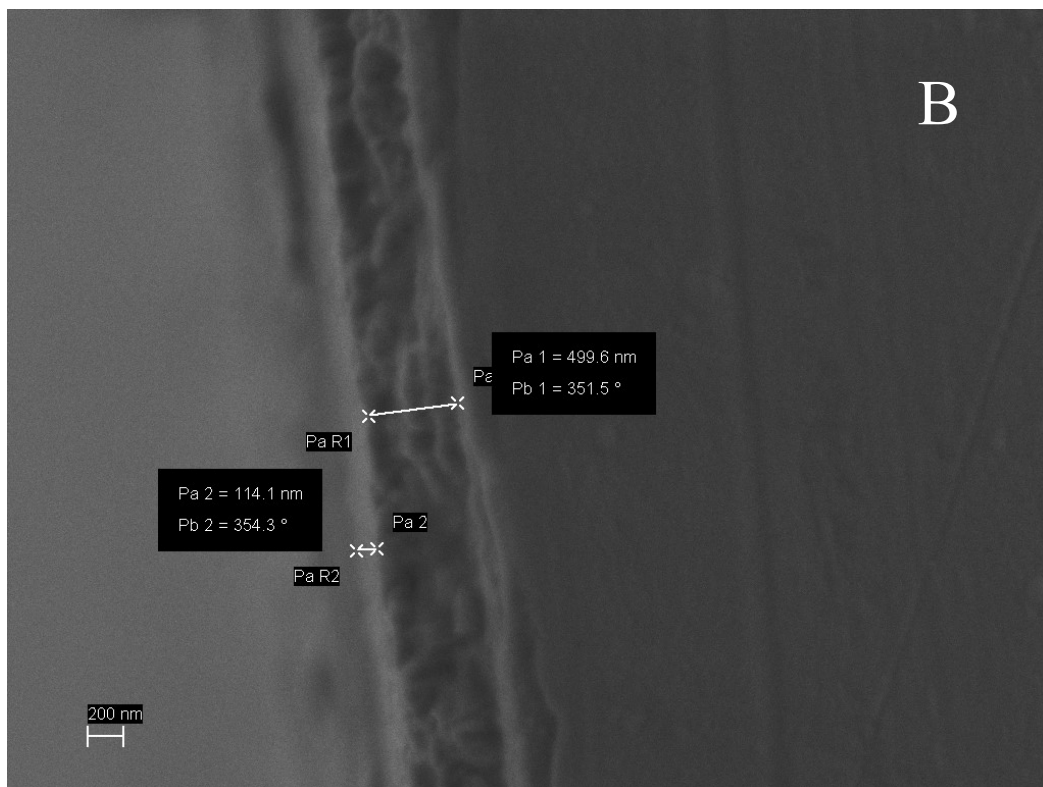
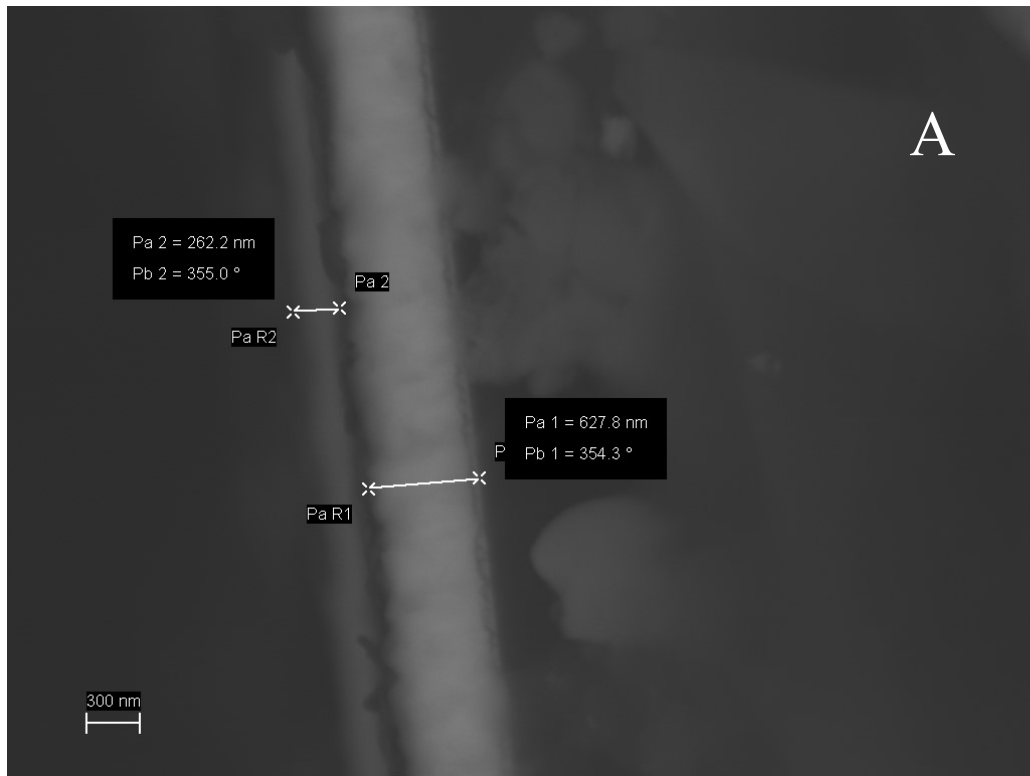


Figure S2 A and B. FESEM images of 200 nm Pd@ZrO<sub>2</sub>/FTO layers. A) Back Scattered Electrons mode, 10kV using a Working Distance of 10mm. B) Secondary Electrons mode.

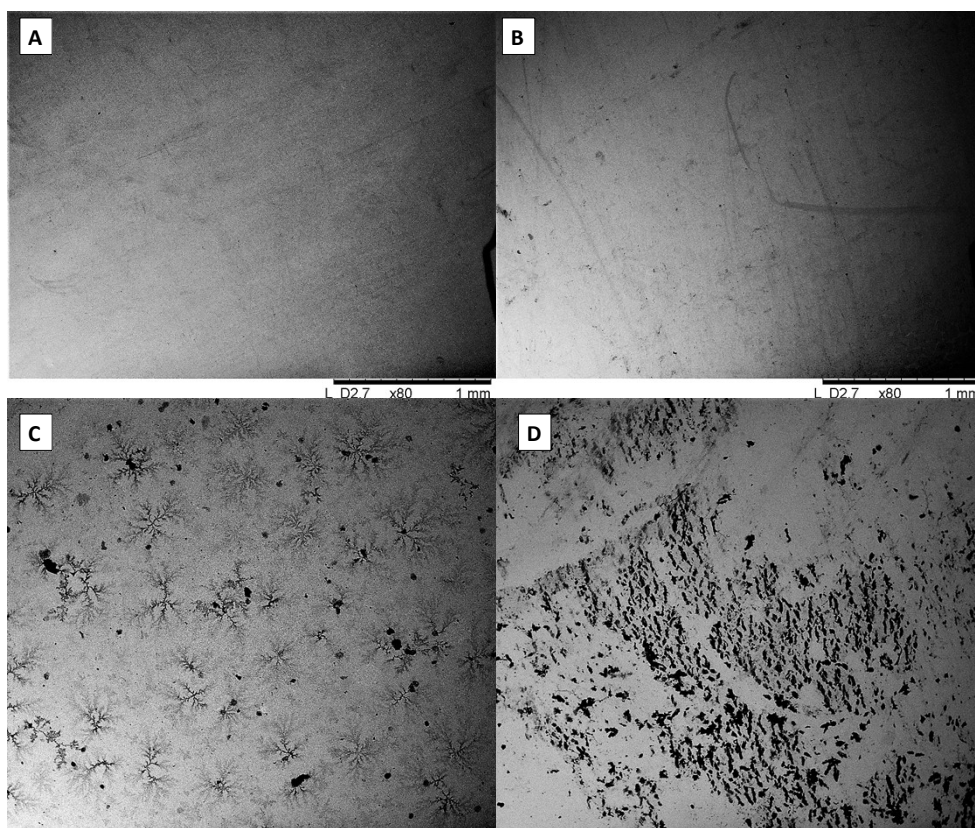


Figure S3 SEM images of Pd@ZrO<sub>2</sub> pristine samples: A) 50 nm; B) 200 nm. C) 50 nm after 5000 CV cycles. D) 200 nm after 8 CV cycles.