

Electronic Supporting Information

Comparison of photocatalytic and transport properties of TiO₂ and ZnO nanostructures for solar-driven water splitting

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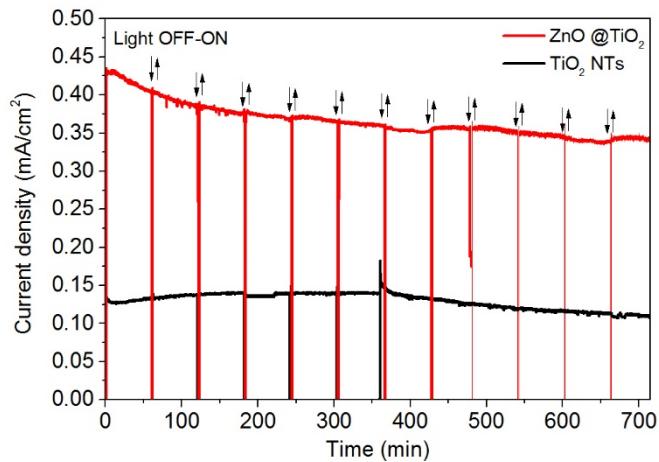


Figure S1. Long-time $I-t$ curves (12 h) at 0.3 V vs. Ag/AgCl under AM 1.5G simulated solar illumination (100 mW/cm²) of TiO₂ NTs and ZnO@TiO₂ photoelectrodes.

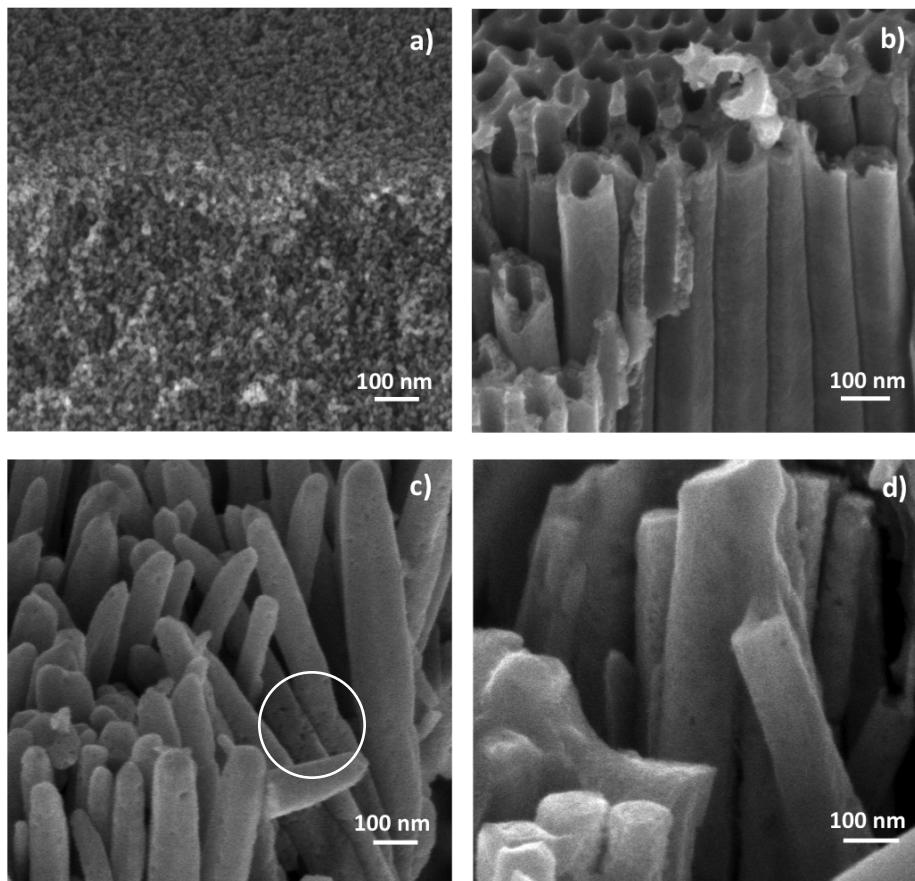


Figure S2. 45° tilted view FESEM images of the different nanostructures after PEC tests: a) TiO_2 NPs, b) TiO_2 NTs after additional 12h CA, c) ZnO NWs and d) $\text{ZnO}@\text{TiO}_2$ core shells after additional 12h CA. White circle put in evidence the early corrosion stage of the ZnO NWs