

Supplementary Information

Facile One-Step Electrodeposition Fabrication of Amorphous MoS₂ Catalysts in Titanium for Hydrogen Evolution Reaction

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Table S1. EIS estimated resistances of MoS₂ films on FTO and Ti substrate, for equivalent circuit presented in the Figure S3c

Material	MoS ₂ /FTO	MoS ₂ /Ti
R _{film} / (Ω cm ²)	4.2	0.5
R _{ct} / (Ω cm ²)	17.8	3.1

FTO: fluorine-tin doped oxide.

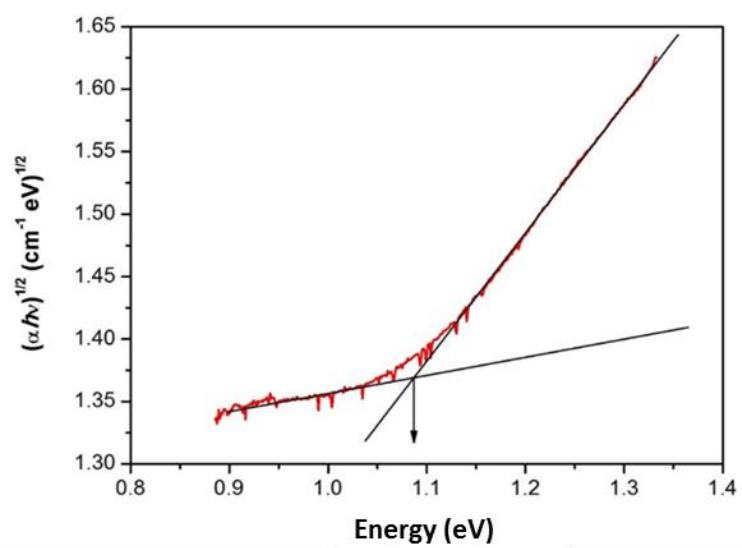


Figure S1. Tauc plot obtained in transmittance mode for electrode 5.

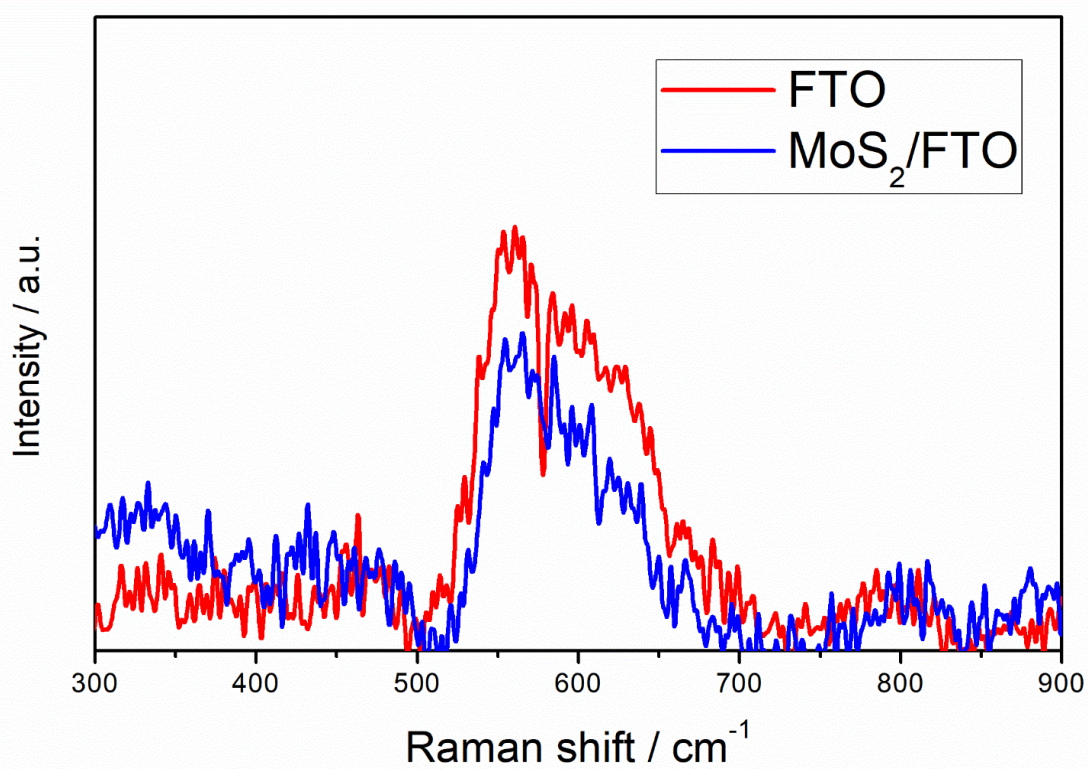


Figure S2. Raman spectroscopy for electrode 5.

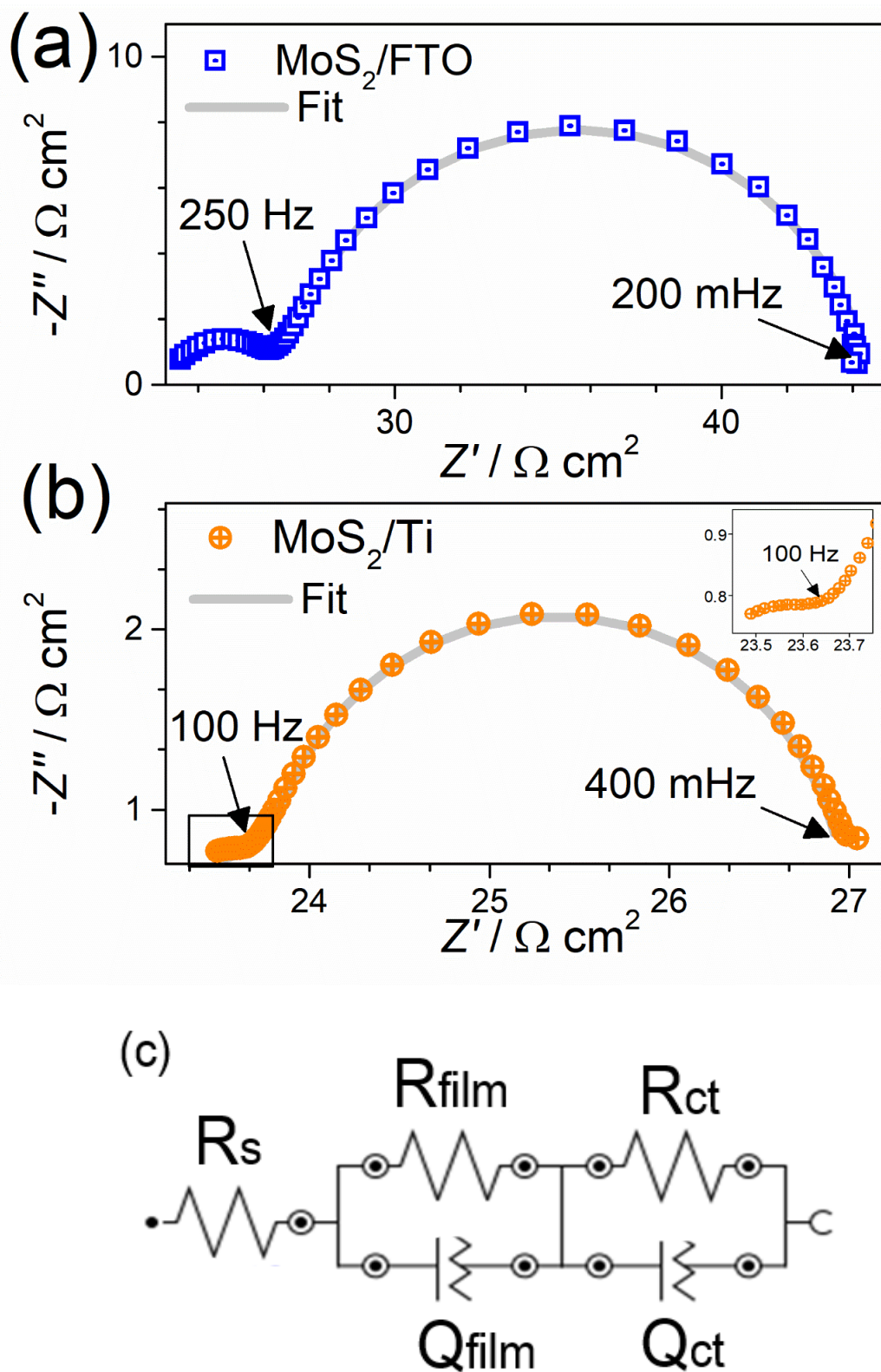


Figure S3. Nyquist plot of MoS_2 on (a) FTO and (b) Ti substrates; (c) equivalent circuit for EIS measurements.

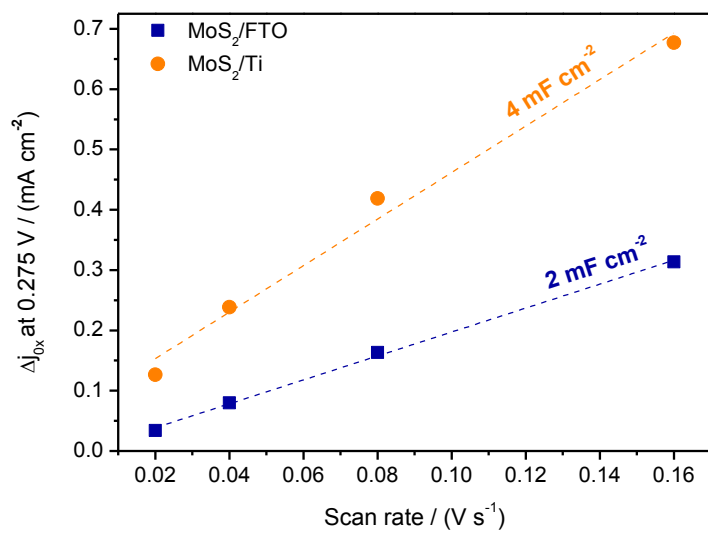


Figure S4. The capacitive current at 0.275 V (vs RHE), for the MoS₂/FTO and MoS₂/Ti electrodes.