

## Supplementary Information

### Porous FTO Thin Layers Created with a Facile One-step Sn<sup>4+</sup>-based Anodic Deposition Process and their Potential Applications in Ion Sensing

Kuan Ting Lee,<sup>a</sup> and Shih Yuan Lu,<sup>\*a</sup>

<sup>a</sup> Department of Chemical Engineering, National Tsing Hua University, Hsinchu, Taiwan

E-mail: SYLu@mx.nthu.edu.tw

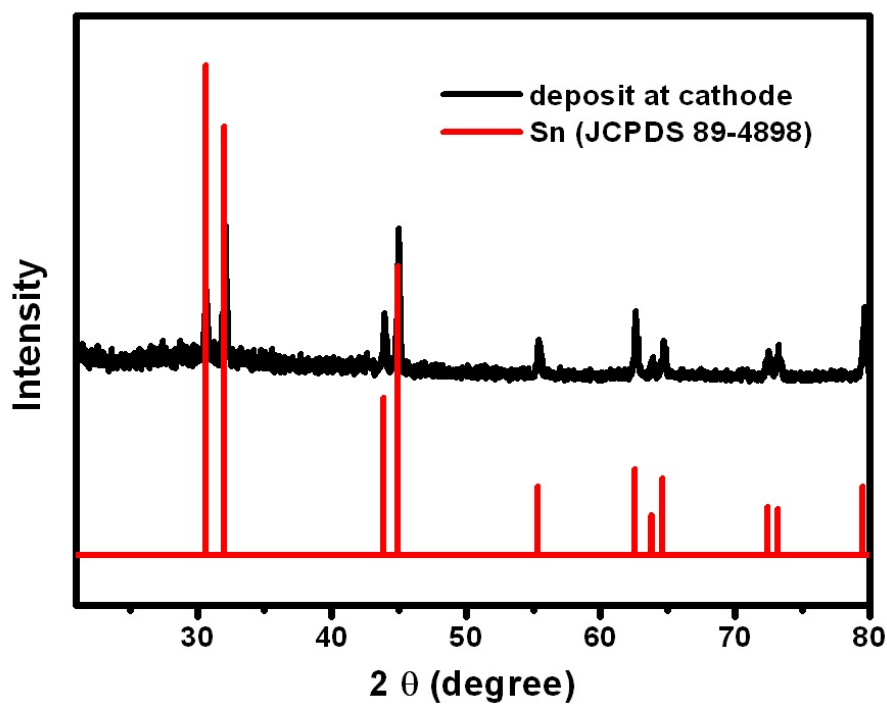


Figure S1. XRD pattern of deposit collected at cathode.

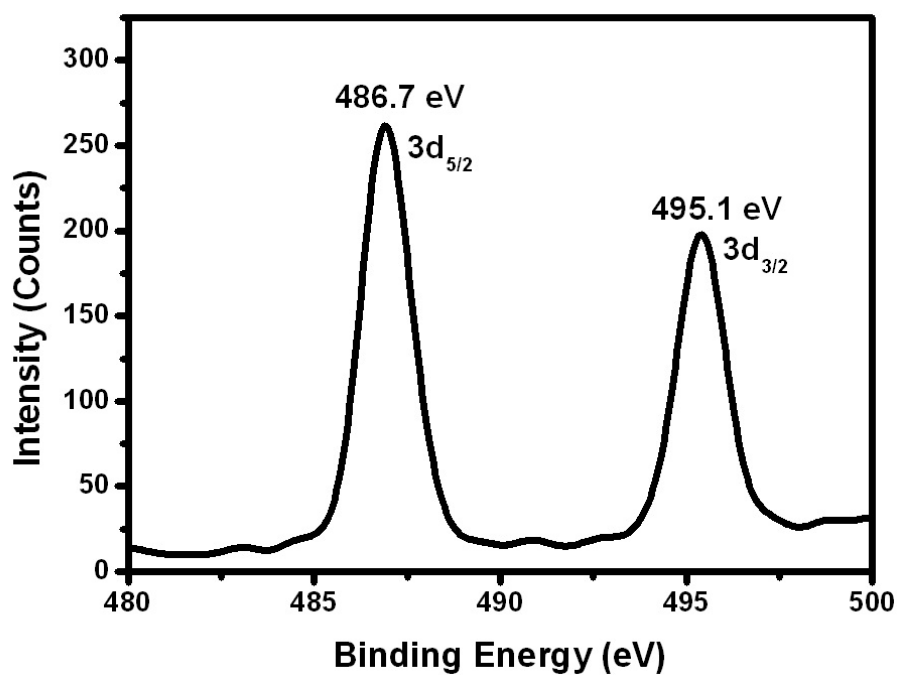


Figure S2. XPS spectrum of FTO sample treated at 7V in oxalic acid for 30 min.

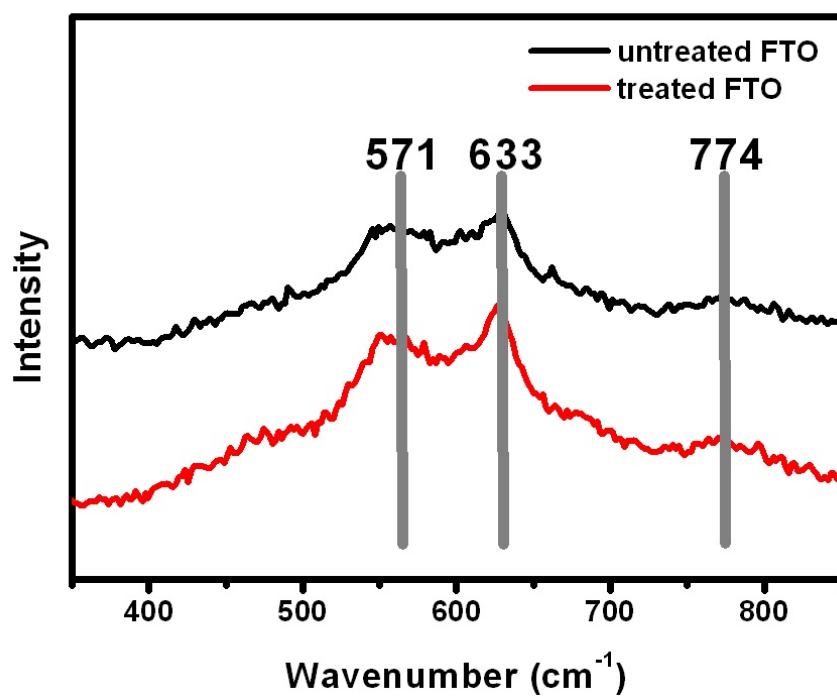


Figure S3. Raman spectra of FTO samples untreated and treated at 7V in oxalic acid for 30 min.