Supplementary Materials

Facile Fabrication of Metal Oxide Based Catalytic Electrodes by AC Plasma Deposition and Electrochemical Detection of Hydrogen Peroxide

Quang-Tan Bui ¹, In-Keun Yu ², Anantha Iyengar Gopalan ³, Gopalan Saianand⁴, Woonjung Kim ^{1,*} and Seong-Ho Choi ^{1,*}

- ¹ Department of Chemistry, Hannam University, Daejeon 34054, Republic of Korea; buiquangtan.bka@gmail.com
- ² Plasma Technology Research Center, National Fusion Research Institute (NFRI), Gunsan 54004, Republic of Korea; ikyu@nfri.re.kr
- ³ Daeyong Regional Infrastructure Technology Development Center, Kyungpook National University; Daegu, South Korea; algopal99@gmail.com
- ⁴ School of Engineering, Faculty of Engineering and Built Environment, The University of Newcastle; Callaghan, NSW 2308, Australia; Saianand.Gopalan@newcastle.edu.au
- * Correspondence: wjkim@hnu.kr (W.K.); Tel.: +82-42-629-8939; shchoi@hnu.kr (S-H.C.); Tel.: +82-42-629-8824

Received: 11 October 2019; Accepted: 22 October 2019; Published: date

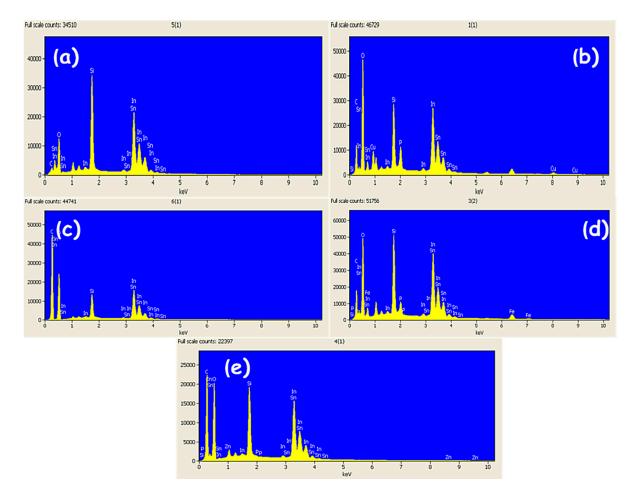
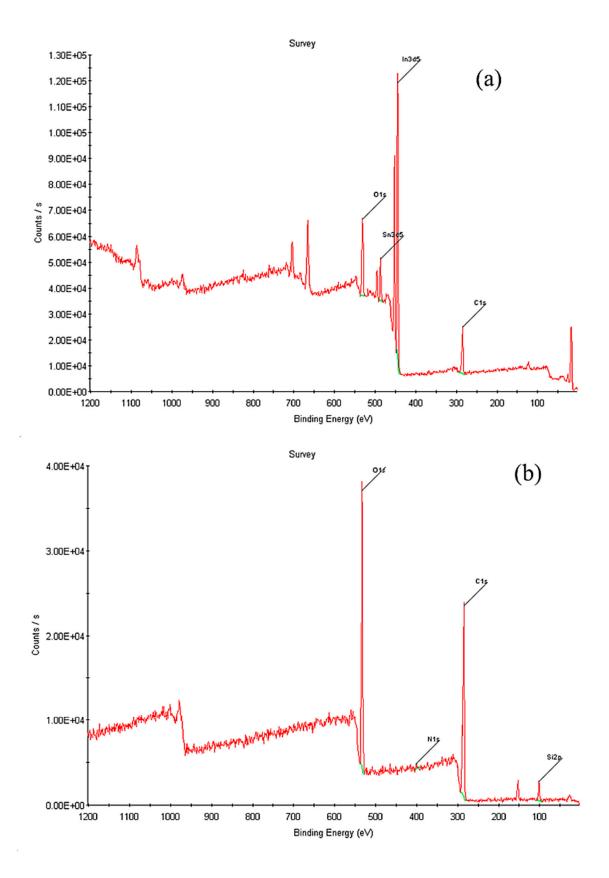
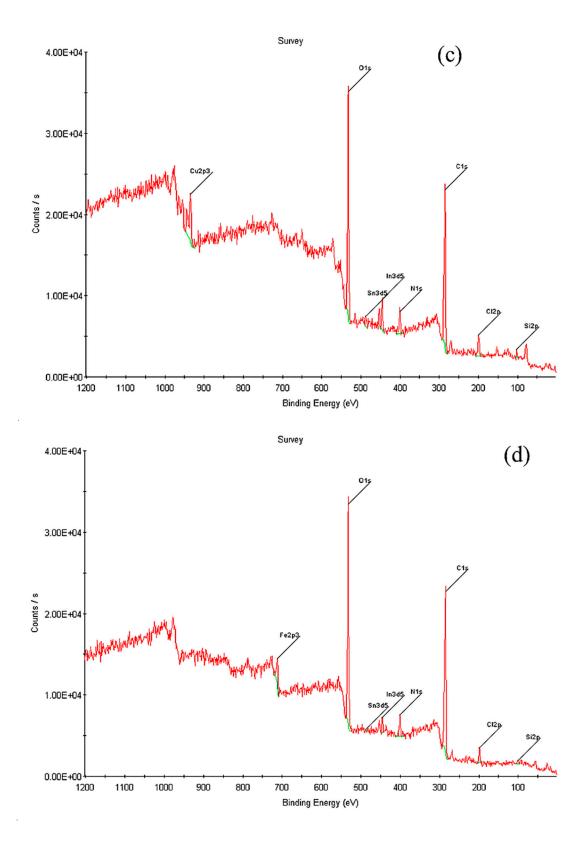


Figure S1. EDS of the bare (a) ITO, (b) PAA, (c) CuO-PAA, (d) Fe₂O₃-PAA and (e) ZnO-PAA/ITO electrodes.





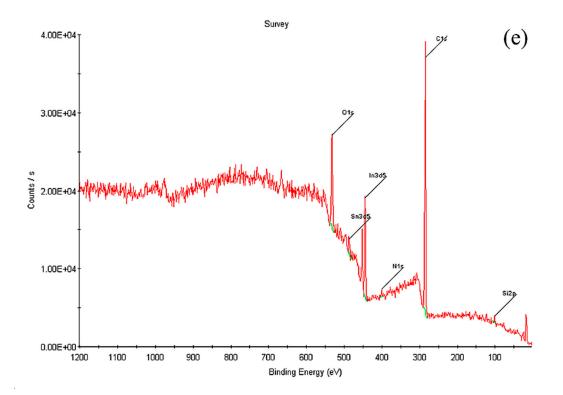


Figure S2. XPS spectra of the bare ITO (a), PAA (b), CuO-PAA (c), Fe2O3-PAA (d) and ZnO-PAA/ITO electrodes (e).

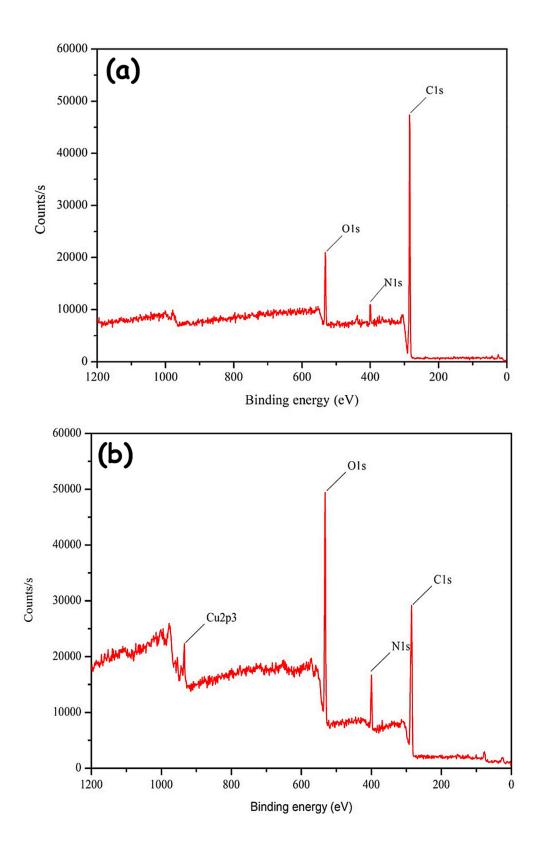


Figure S3. XPS spectra of (a) MBA-PAA and (b) CuO-MBA-PAA/ITO electrode.