



Journal Name

ARTICLE

Supplementary Information

Facilitated Extrinsic Majority Carrier Depletion and Photogenerated Exciton Dissociation in Annealing-Free ZnO:C Photodetector

Dezhong Zhang,^a Chunyu Liu,^a Kanzhe Li,^b Yu Chen,^b Shengping Ruan^{*a} Xindong Zhang^{*b} and Chuannan Li,^{*b}

^a State Key Laboratory on Integrated Optoelectronics, Jilin University, Changchun 130012, P. R. China

^b College of Electronic Science & Engineering, Jilin University, Changchun 130012, P. R. China

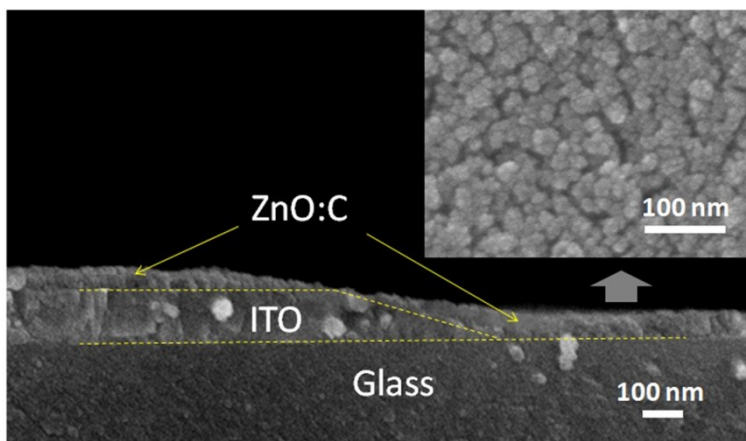


Fig. S1 Cross-section SEM image of the ZnO:C composite film near an ITO electrode, inset is the surface SEM image of the ZnO:C layer on glass substrate.

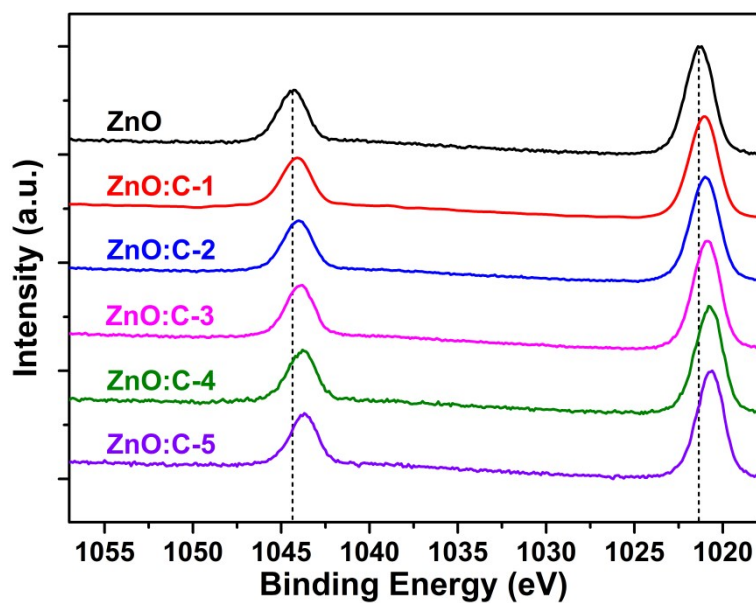


Fig. S2 XPS high resolution survey scan of Zn 2p for ZnO and ZnO:C films.