

Supporting information

Light-soaking Free Organic Photovoltaic Devices with Sol-gel Deposited ZnO and AZO Electron Transport Layers

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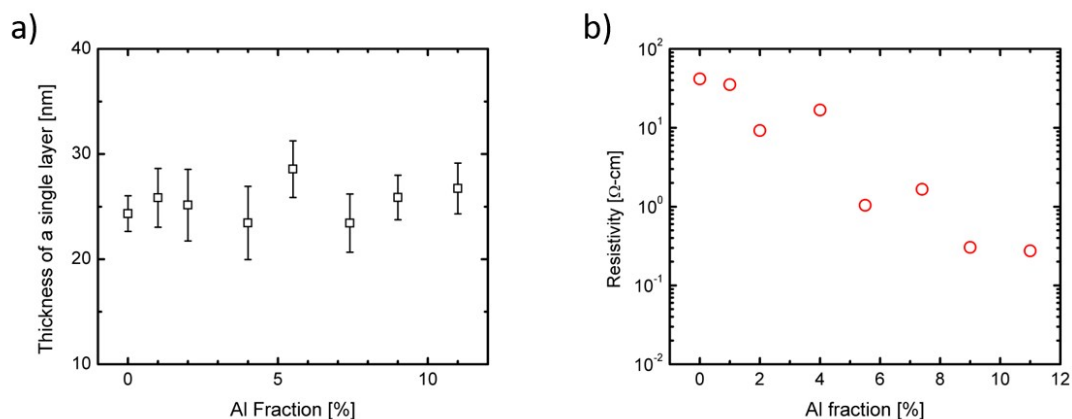


Figure S1. Thickness and resistivity of Al-doped ZnO nanoparticle thin films. The thickness was measured for the films with a single spin-coating.

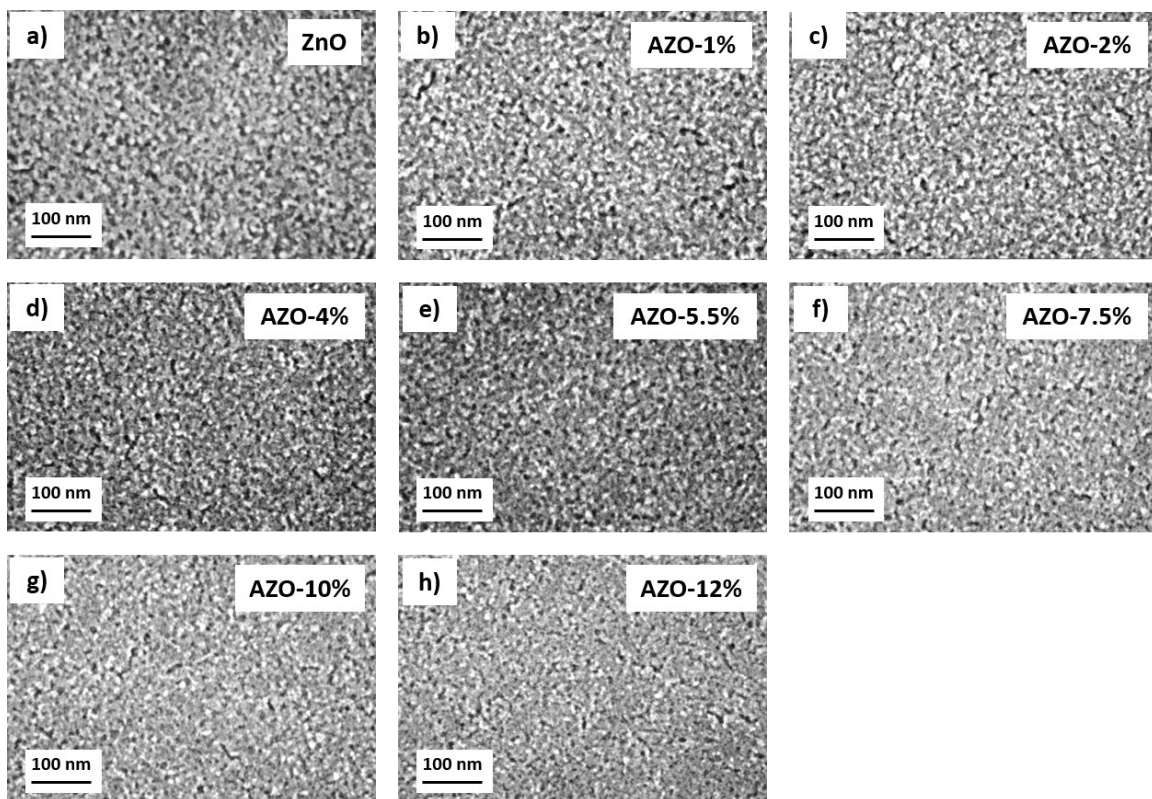


Figure S2. SEM images of 25 nm thick of ZnO nanoparticles doped with various fraction of Al coated on glass substrate. All sample was annealed at 250 °C.

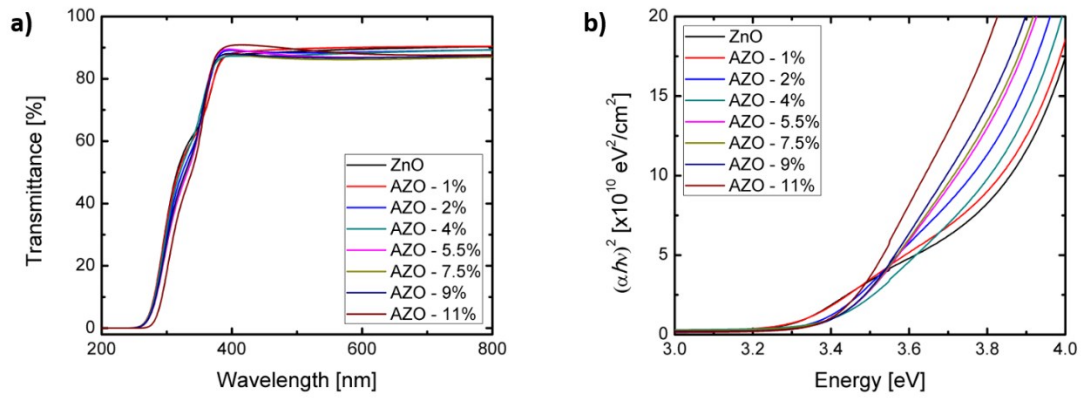


Figure S3. (a) Transmittance versus wavelength plot and (b) $(\alpha h\nu)^2$ versus photon energy plot of $\text{Al}_x\text{Zn}_{(1-x)}\text{O}$ nanoparticles, x ranged from 0 to 11 %, deposited on glass substrates.