

Supporting Information

Figure S1. Cyclic voltammograms of vapor deposited films on ITO. The electrolyte contained 0.1 M KNO_3 in an air atmosphere; light intensity = 100 mW/cm^2 ; scan rate is 20 mV/s .

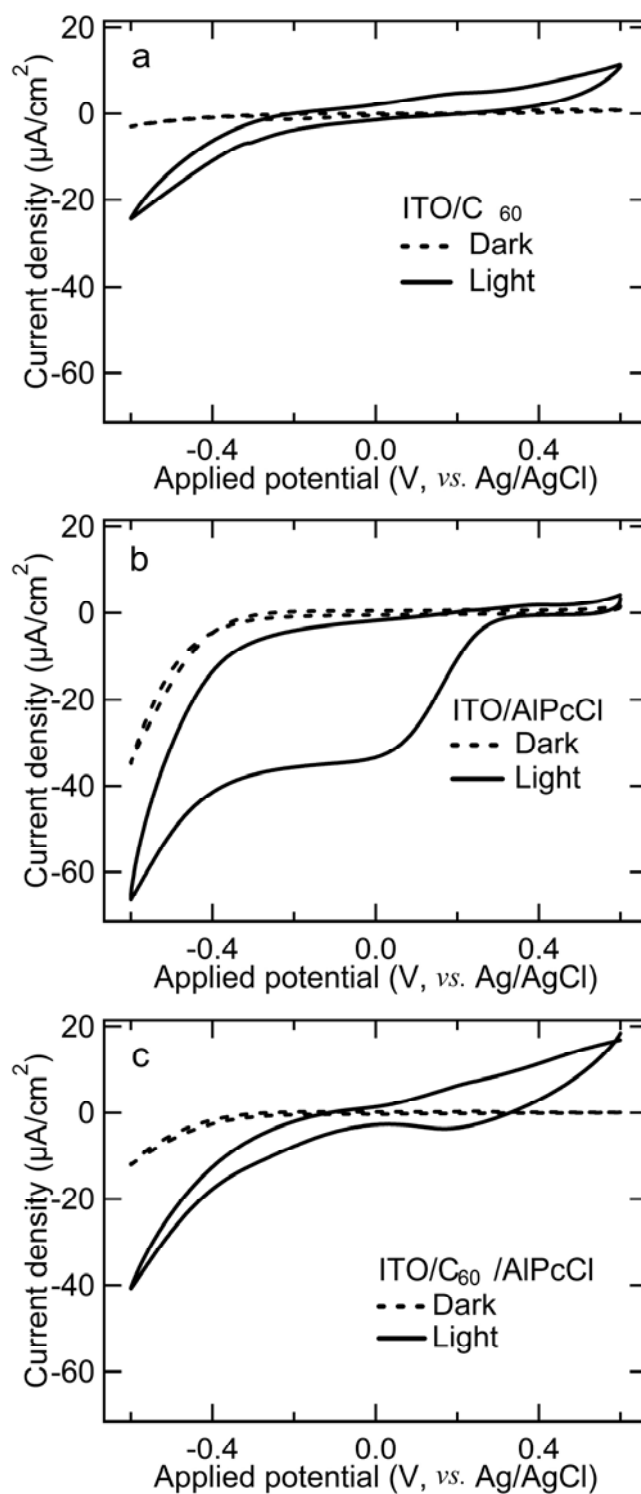


Figure S1. Cont.

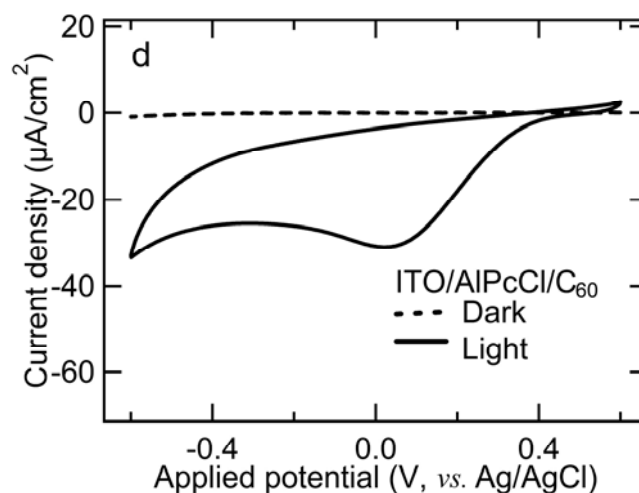


Figure S2. Schematic diagram of the photoelectrochemical processes for (a) an n-type monolayer; (b) a p-type monolayer; (c) an n/p bilayer; and (d) a p/n bilayer in the presence of an electron acceptor.

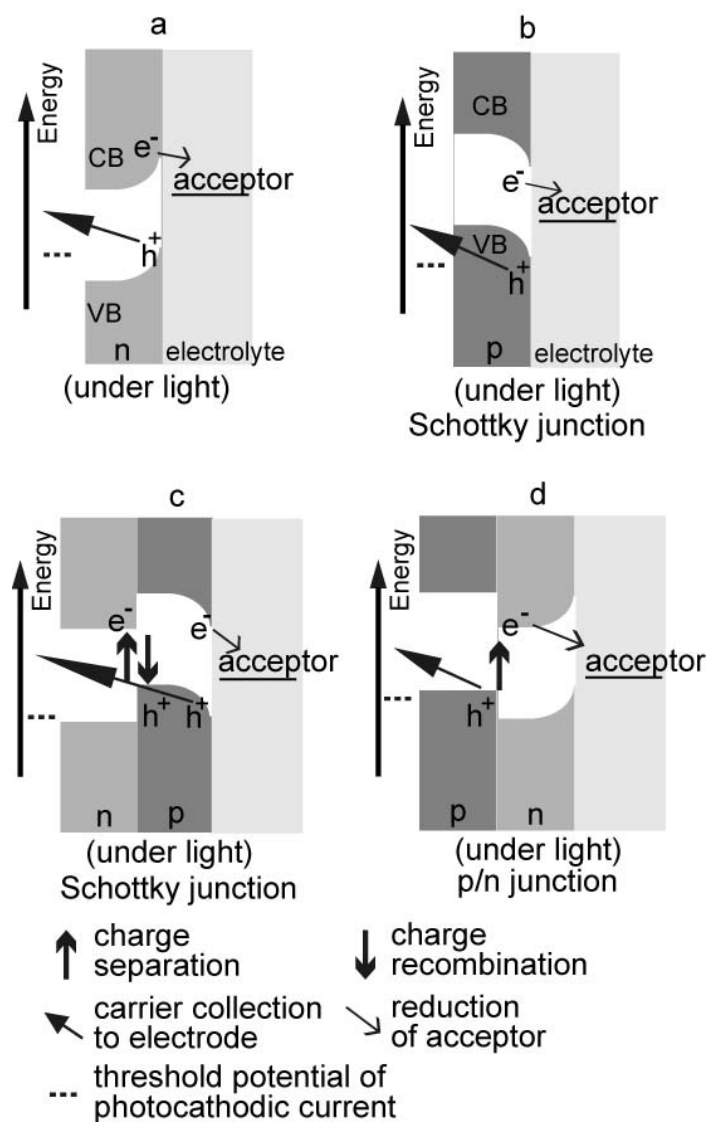


Figure S3. Cyclic voltammograms of nanoparticle films on ITO. The electrolyte contained 0.1 M KNO₃ in an Air (red lines) or Ar (dark lines) atmosphere; light intensity = 100 mW/cm²; scan rate is 20 mV/s.

