Fig. S1.   In general, the cell efficiency increases with the short circuit current density.

Selected cell IDs are given.
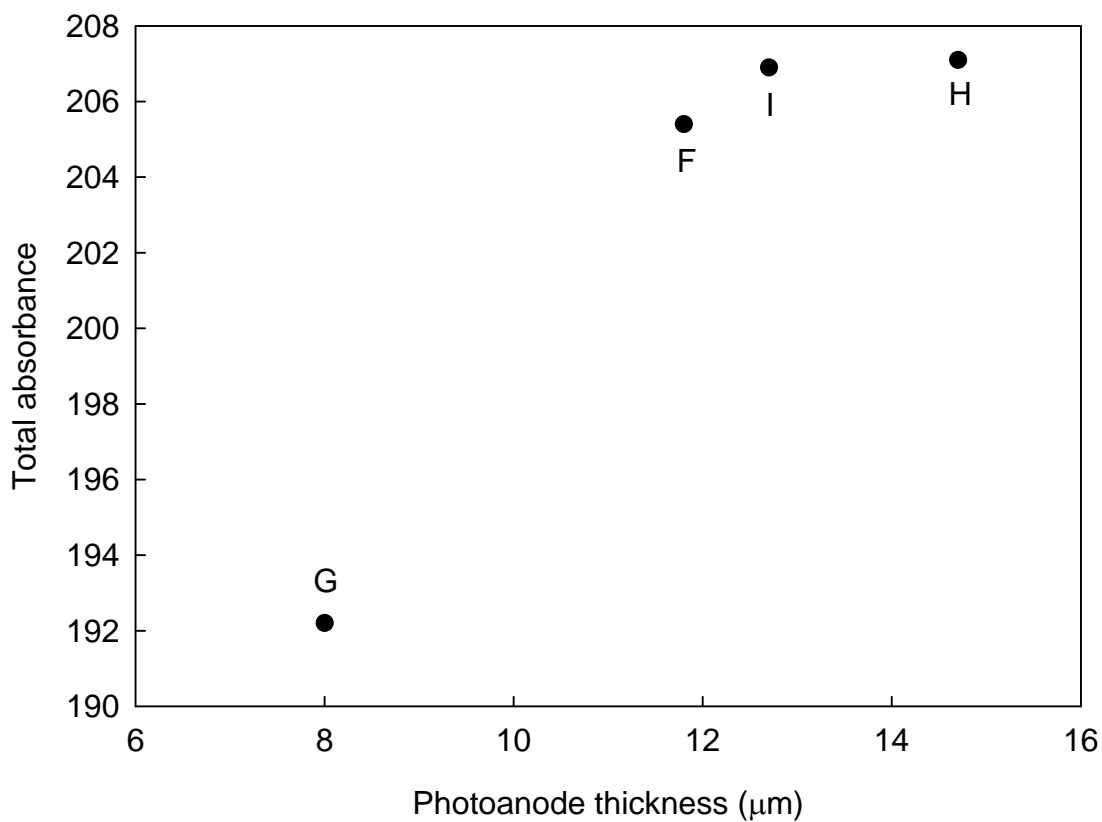
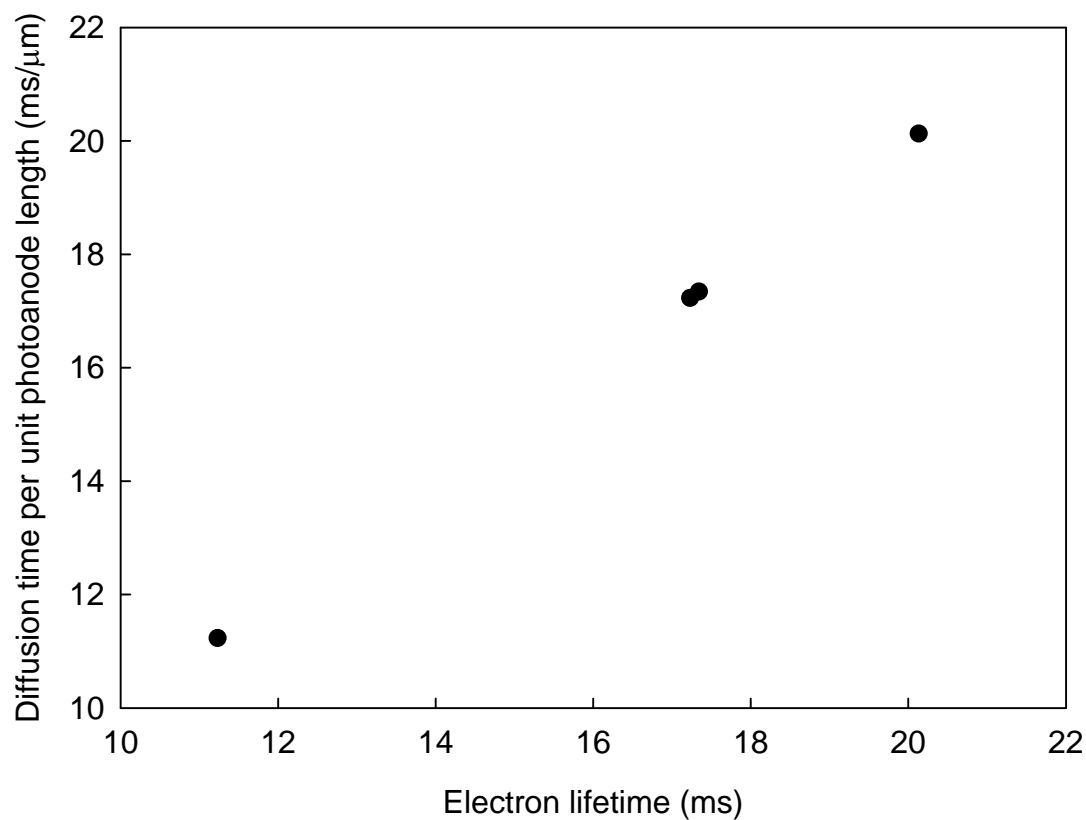Fig. S2.   The total absorbance increases with the photoanode thickness

Fig. S3. τ_n is inversely proportional to τ_d/μm in a linear fashion.
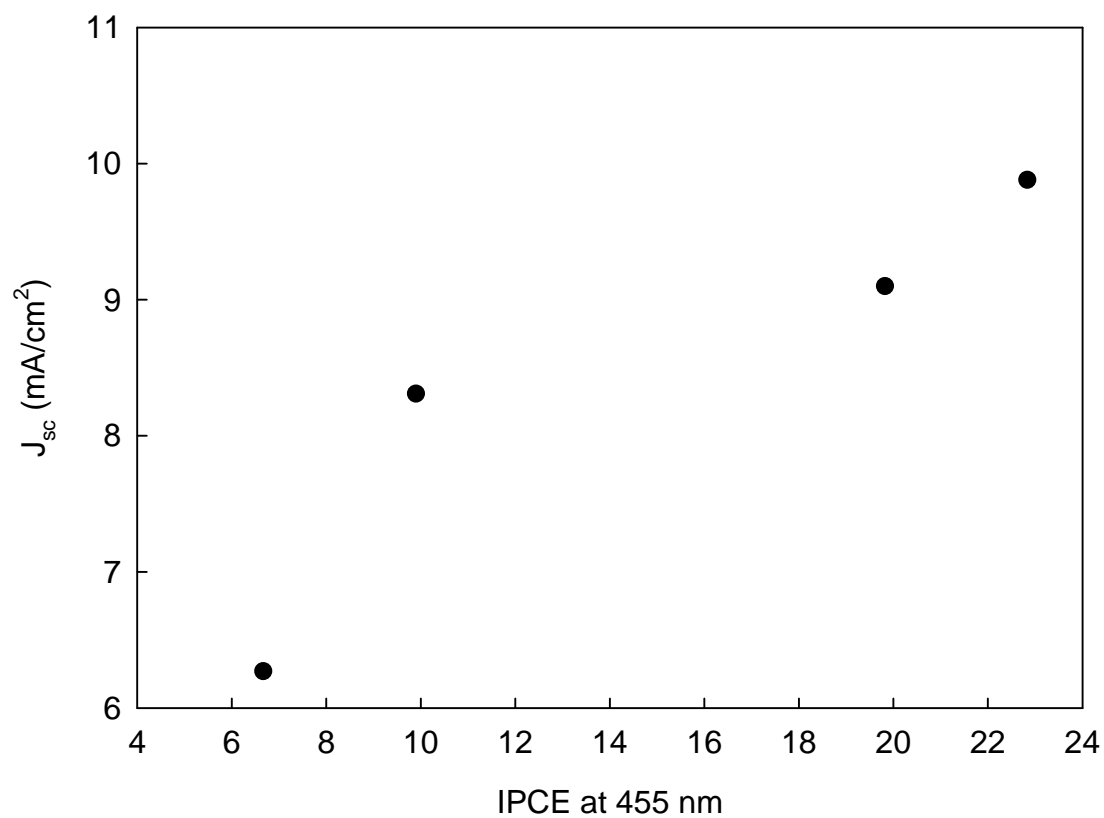
Fig. S4. J_{sc} is proportional to IPCE.   This figure takes the IPCE at 455 nm as an example.