

Supplementary Materials

Table S1. Conductivity of ITO and ITO/ZnO at different annealing temperature.

Temperature of Further Heat-Treatment	Conductivity (S/m)	
	ITO	ITO/ZnO
Room temperature	4.71×10^5	1.45×10^5
300 °C	2.40×10^5	1.29×10^5
340 °C	1.50×10^5	1.21×10^5
360 °C	1.47×10^5	8.07×10^4
370 °C	1.45×10^5	1.26×10^5
380 °C	1.43×10^5	1.37×10^5
400 °C	1.11×10^5	1.87×10^5

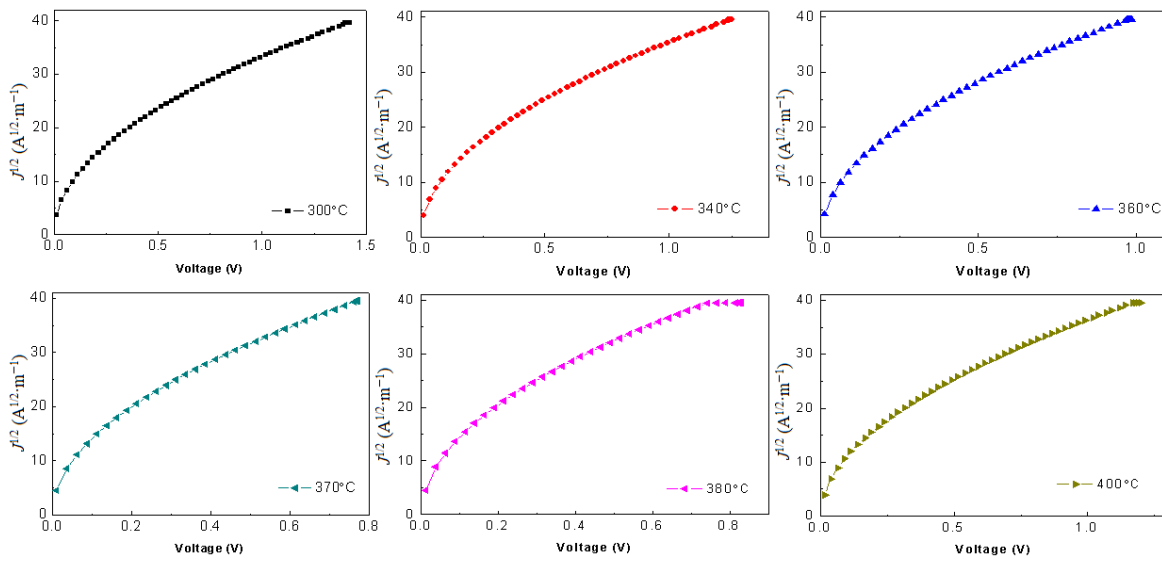


Figure S1. $J^{1/2} \propto V$ curves of CdS NC thin film at different annealing temperature.