



## Supporting Information

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The animated gif (“Supplementary Information 1”) shows a sequence of the probing experiments from Figure 3 at forward and reverse bias (photoluminescence excitation:  $130 \text{ mW/cm}^2$  at 400 nm). The electroluminescence from the crossed nanowire junction can be observed at forward bias as well as the increase of the space charge region (decrease of the photoluminescence area) with increasing reverse bias.