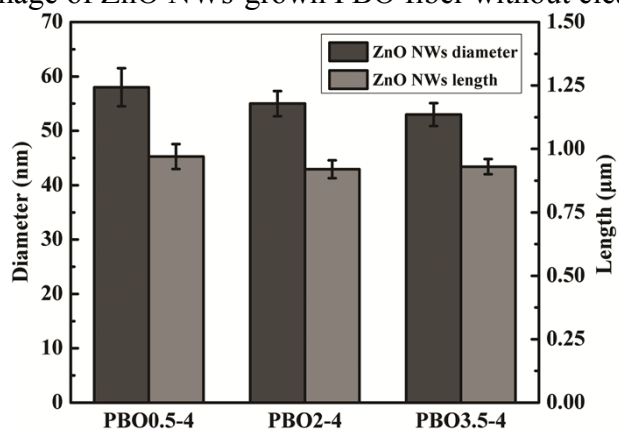
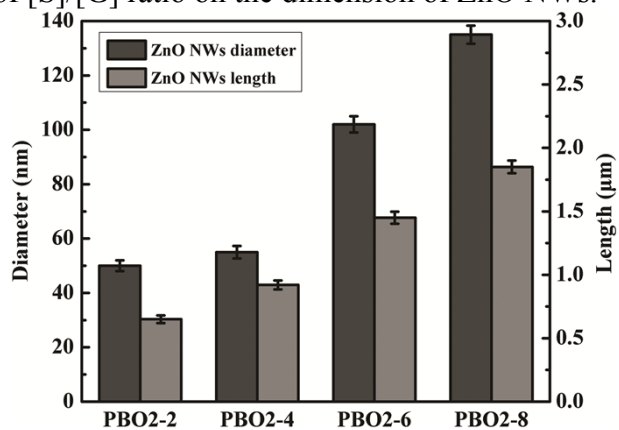


**Figure S1.** SEM image of ZnO NWs-grown PBO fiber without cleaning



**Figure S2.** Effect of [S]/[G] ratio on the dimension of ZnO NWs.



**Figure S3.** Effect of growth time on the dimension of ZnO NWs.