

Supplementary data

Fig. S1. Schematic diagram for preparation of ZnO nanoparticles.

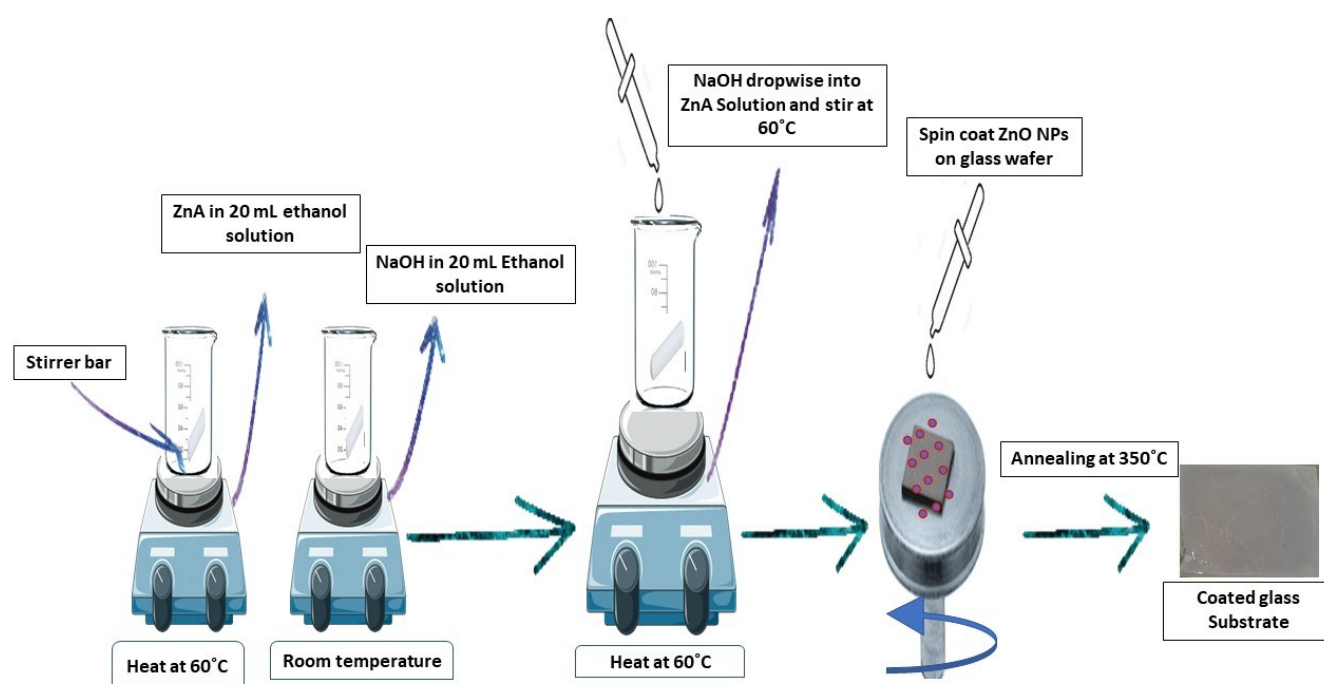


Fig. S2. Schematic diagram for preparation of pristine and Bismuth doped ZnO nanowires.

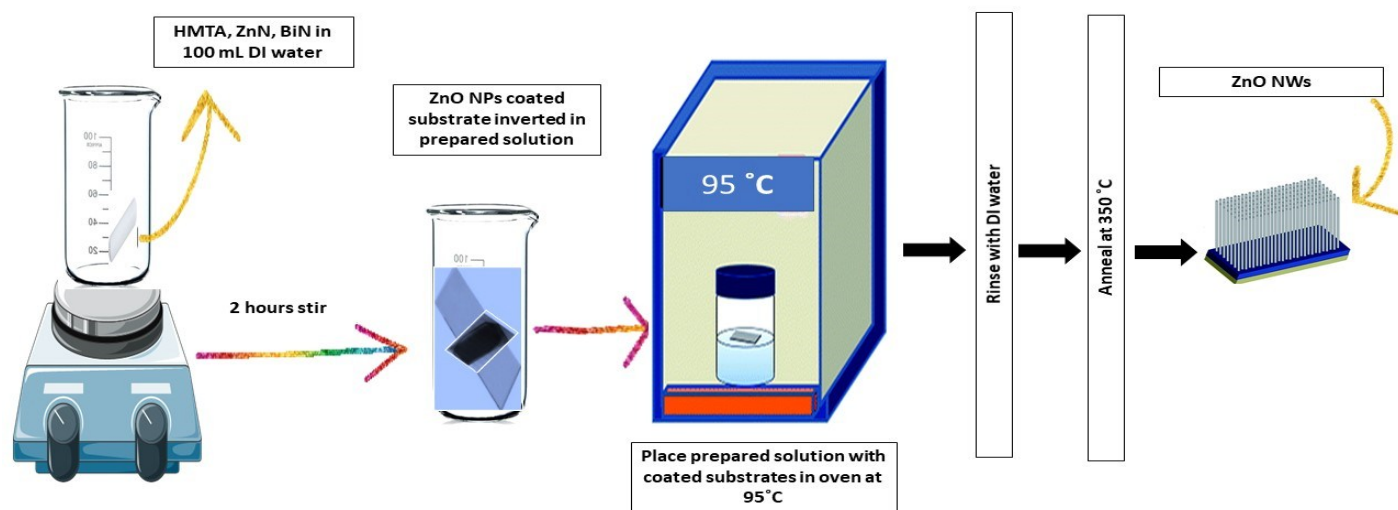


Fig. S3-a Cross-sectional structure view of (a) pristine ZnO, and (b) Bi:ZnO-1% NWs.

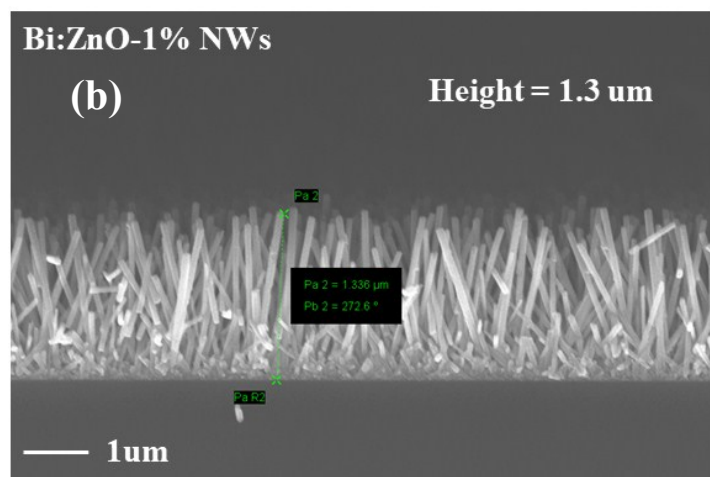
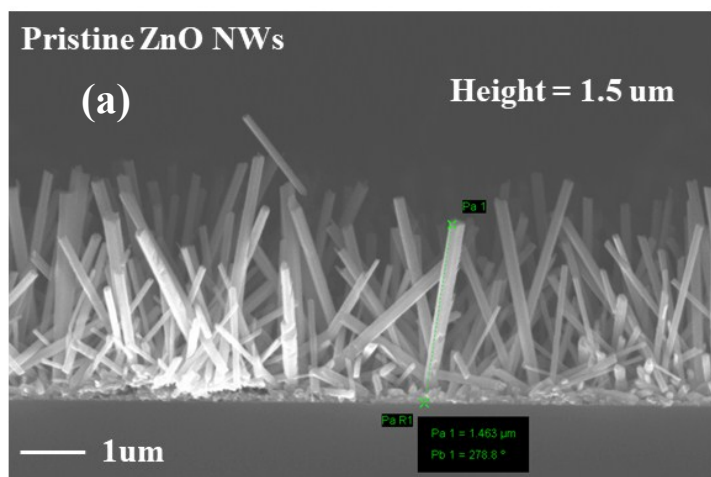


Table. S3-b. FESEM (EDS) table of pristine and Bi-doped ZnO NWs.

		Atomic %	
Element	Pure	1%-doped	3%-doped
C	6.52	11.11	6.49
O	49.14	47.11	49.63
Si	3.43	1.71	0.75
Zn	40.90	39.88	42.80
Bi	0.00	0.20	0.32

Fig. S4. Elemental mapping of Bi:ZnO-3%

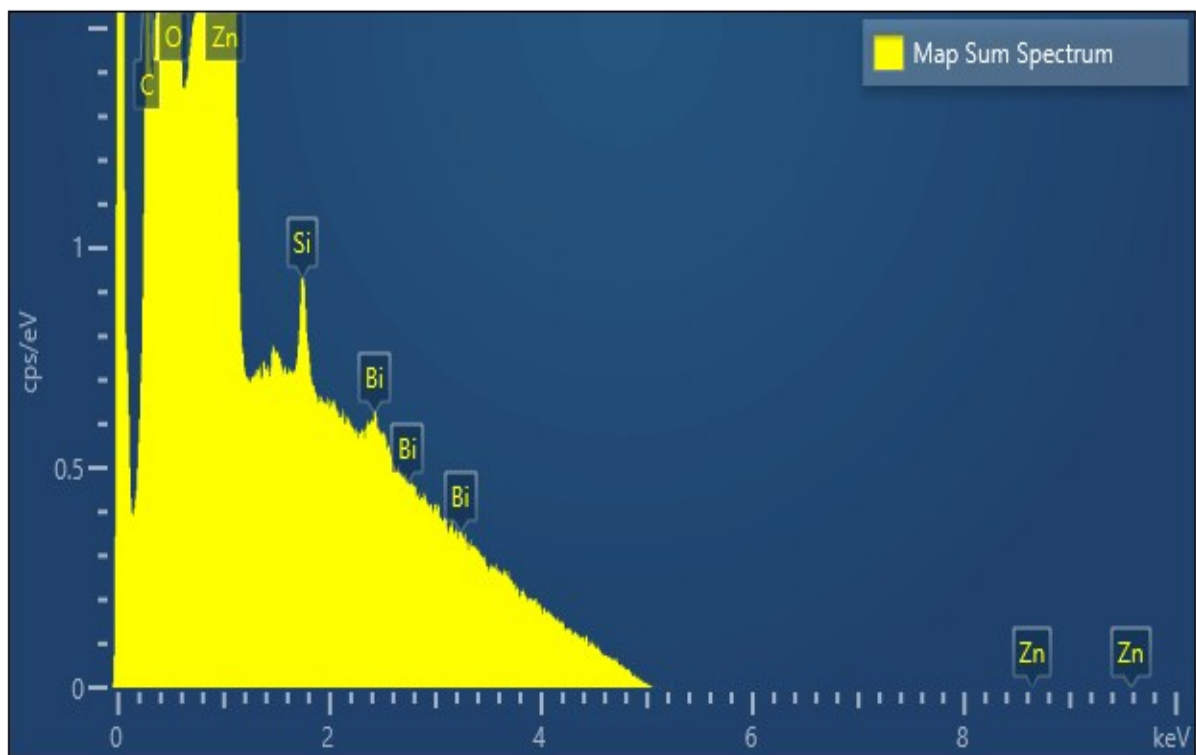


Fig. S5. Survey scan XPS of pristine and Bi-doped ZnO NWs samples.

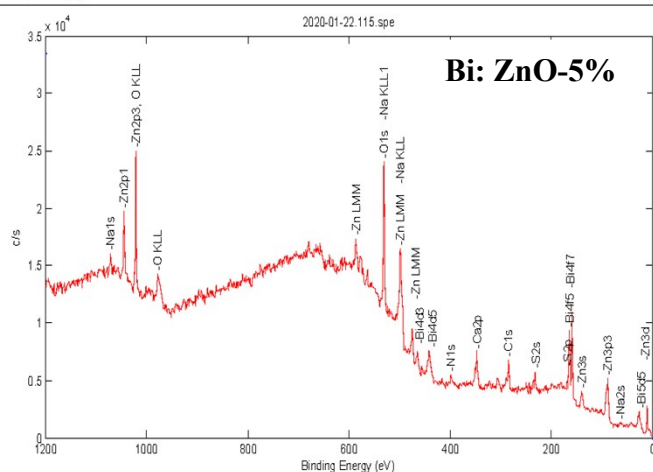
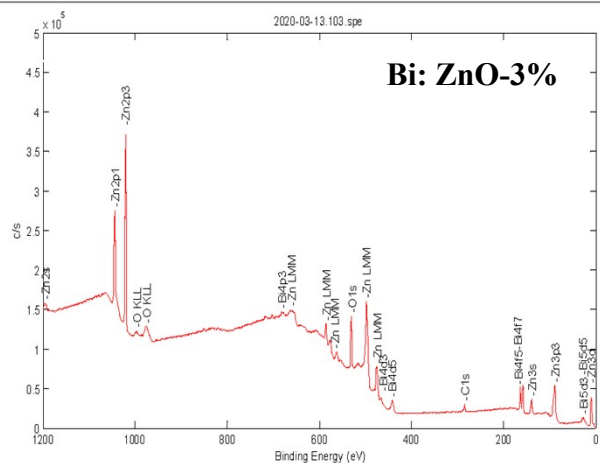
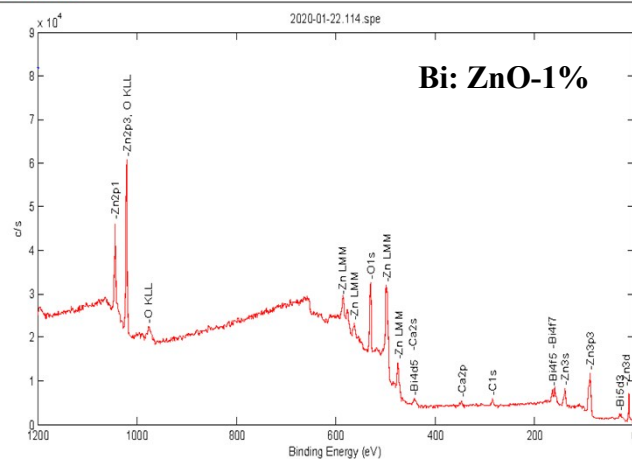
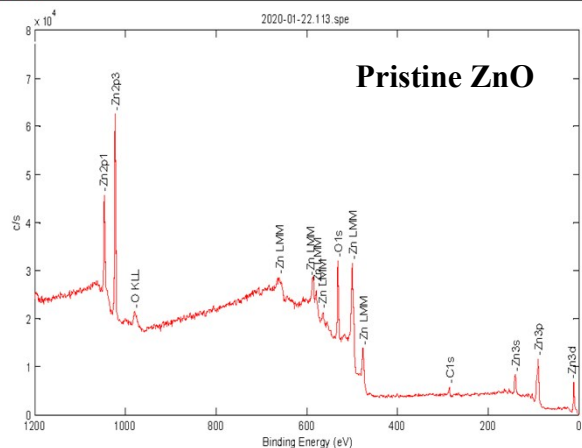


Fig. S6. XPS of Bi:ZnO 5% NWs for Zn, O and Bi elements.

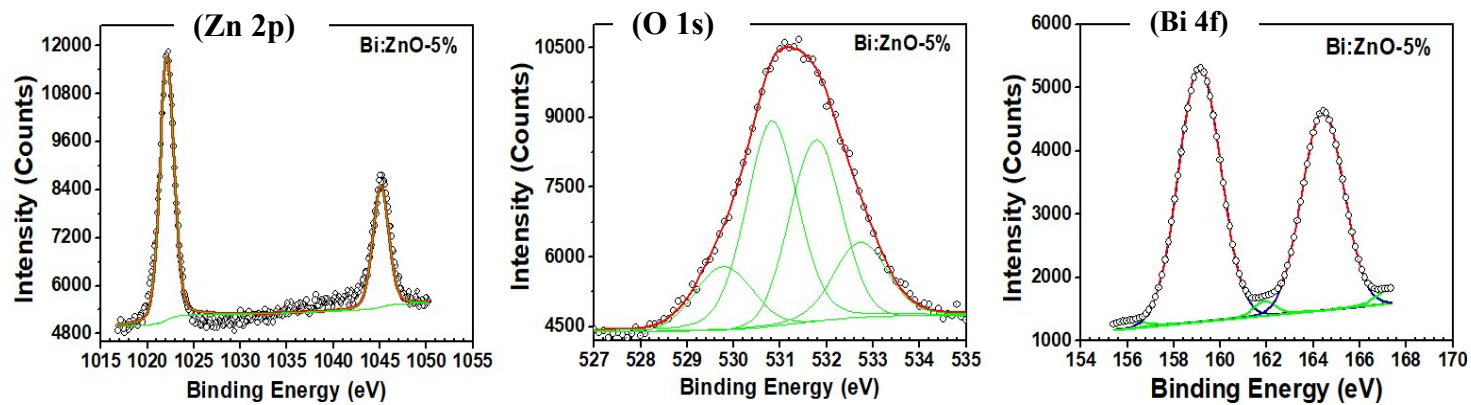


Fig. S7. Magnetization vs temperature (M-T) curves.

