Morphological Evolution of Neodymium Boride Nanowire Growth by Chemical Vapor Deposition

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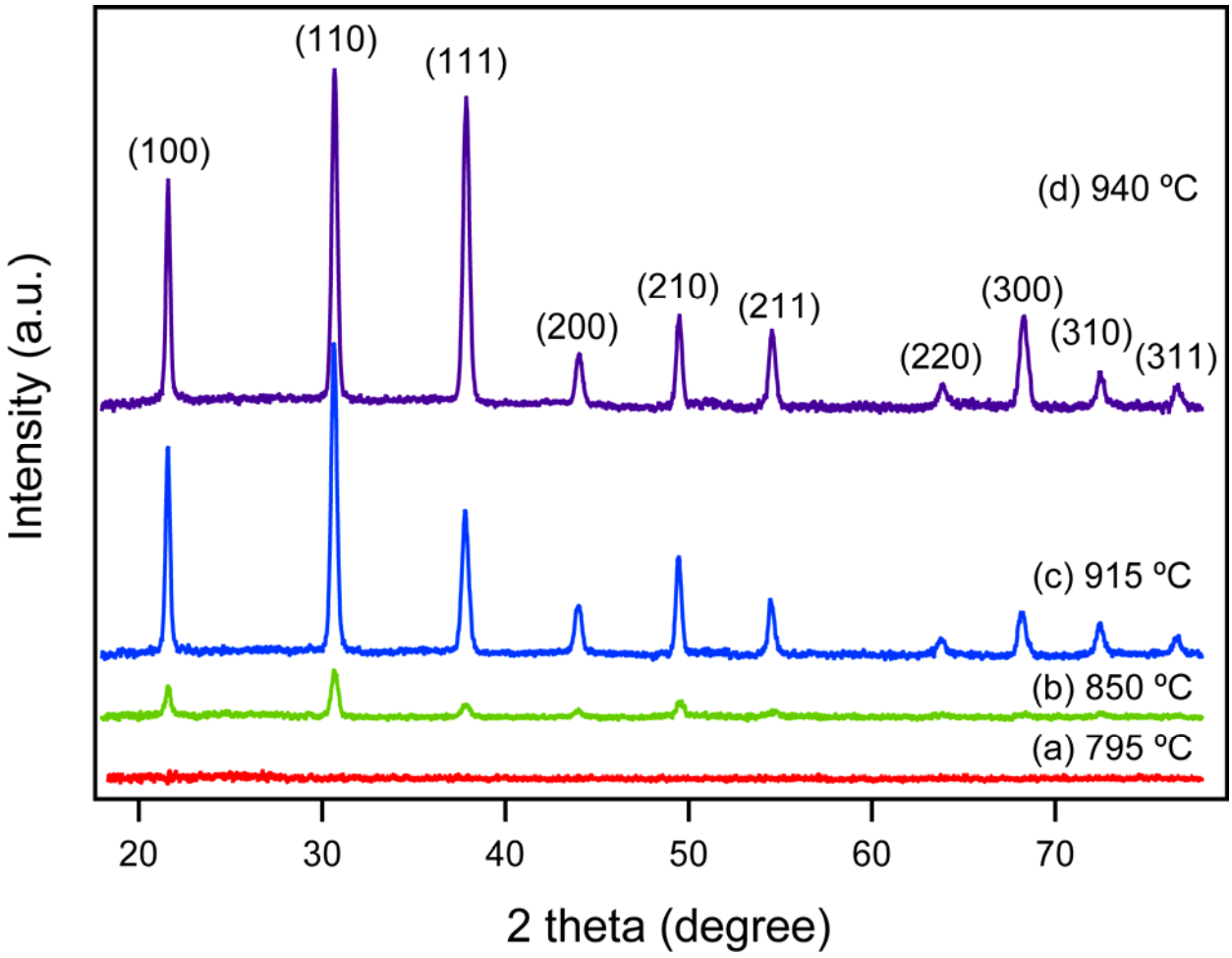

Figure S1. XRD spectra of ***Sample 1***, ***2***, ***3*** and ***4*** synthesized by chemical vapor deposition at (a) 795 ºC, (b) 850 ºC, (c) 915 ºC and (d) 940 ºC. The peaks attributing to NdB_6 phase are indexed in the figure.

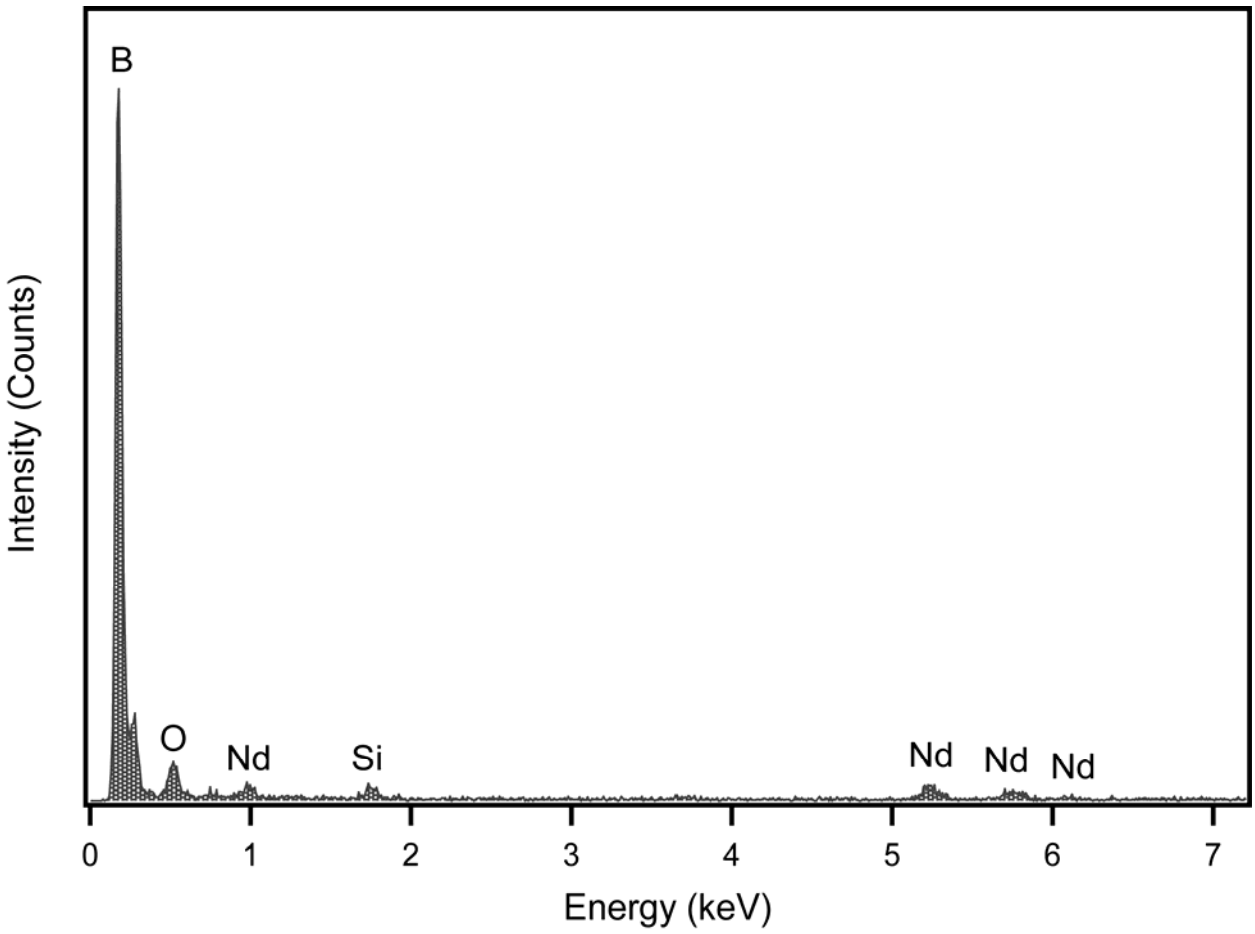

Figure S2. EDX spectrum of the nanowire synthesized at 795 ºC (***Sample 1***) shown in Figure 2(a).

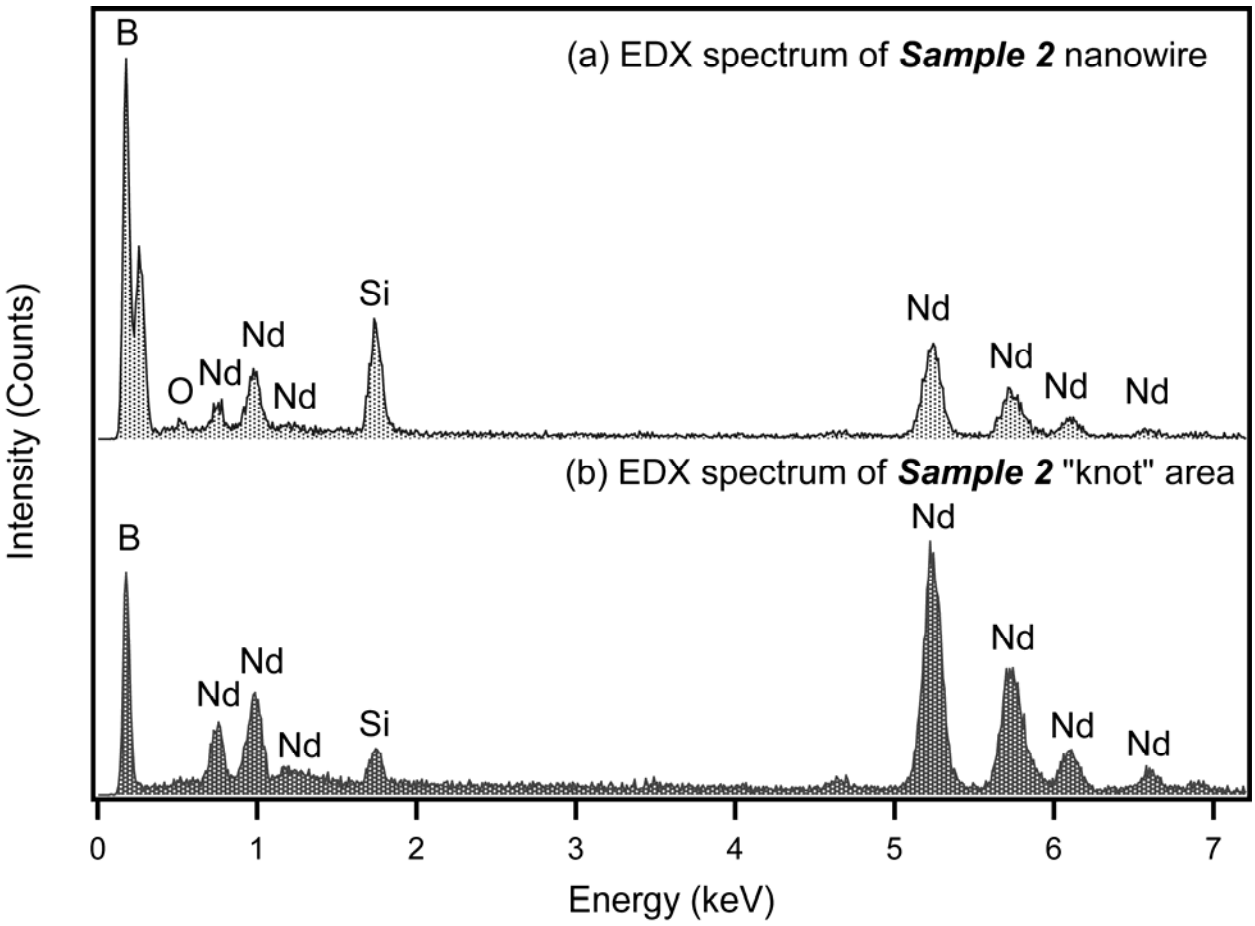

Figure S3. EDX spectra of (a) the bulk and (b) the "knot" area of the neodymium boride nanowire synthesized at 850 ºC (***Sample 2***) shown in Figure 2(b).

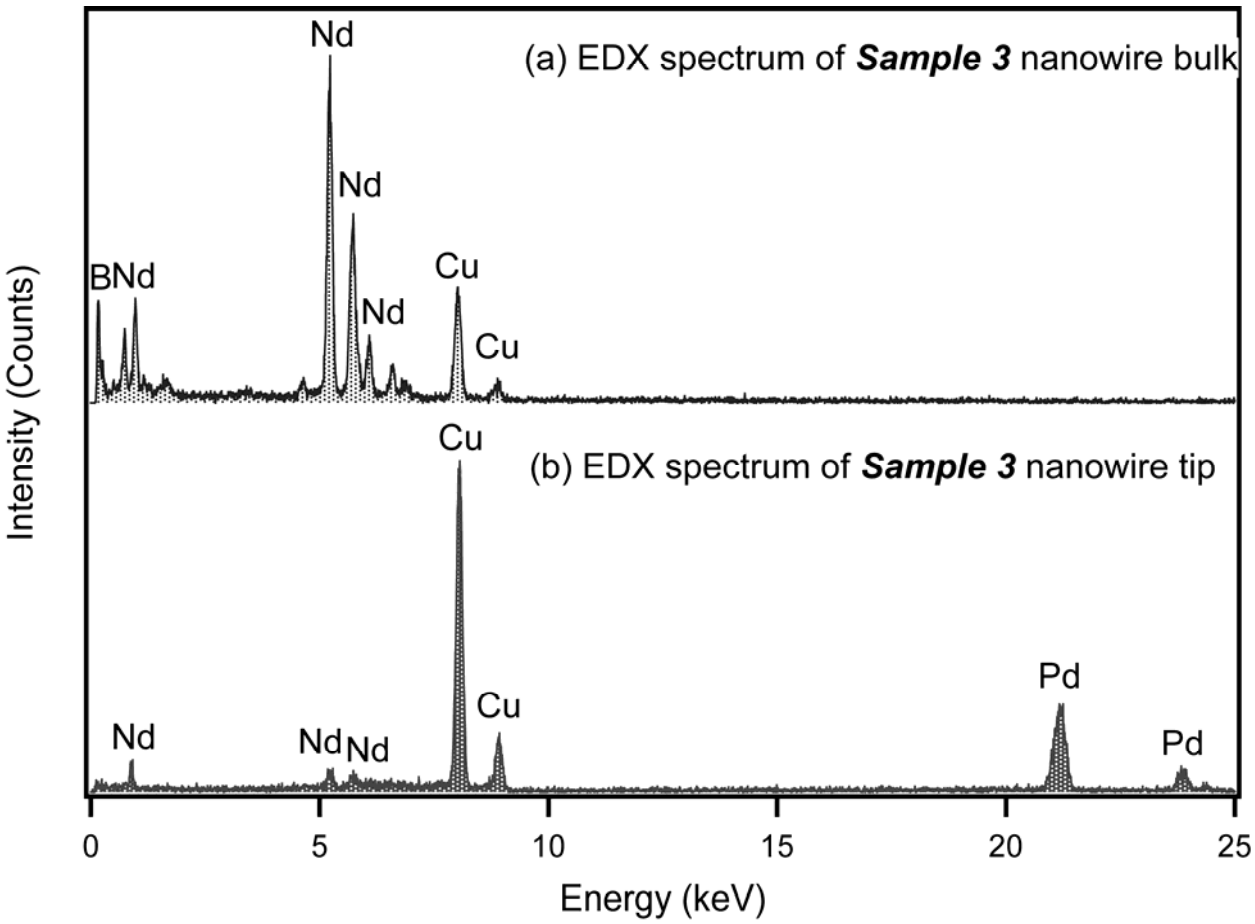

Figure S4. EDX spectra of (a) the bulk and (b) the tip particle of the neodymium boride nanowire synthesized at 915 ºC (***Sample 3***) shown in Figure 2(c).

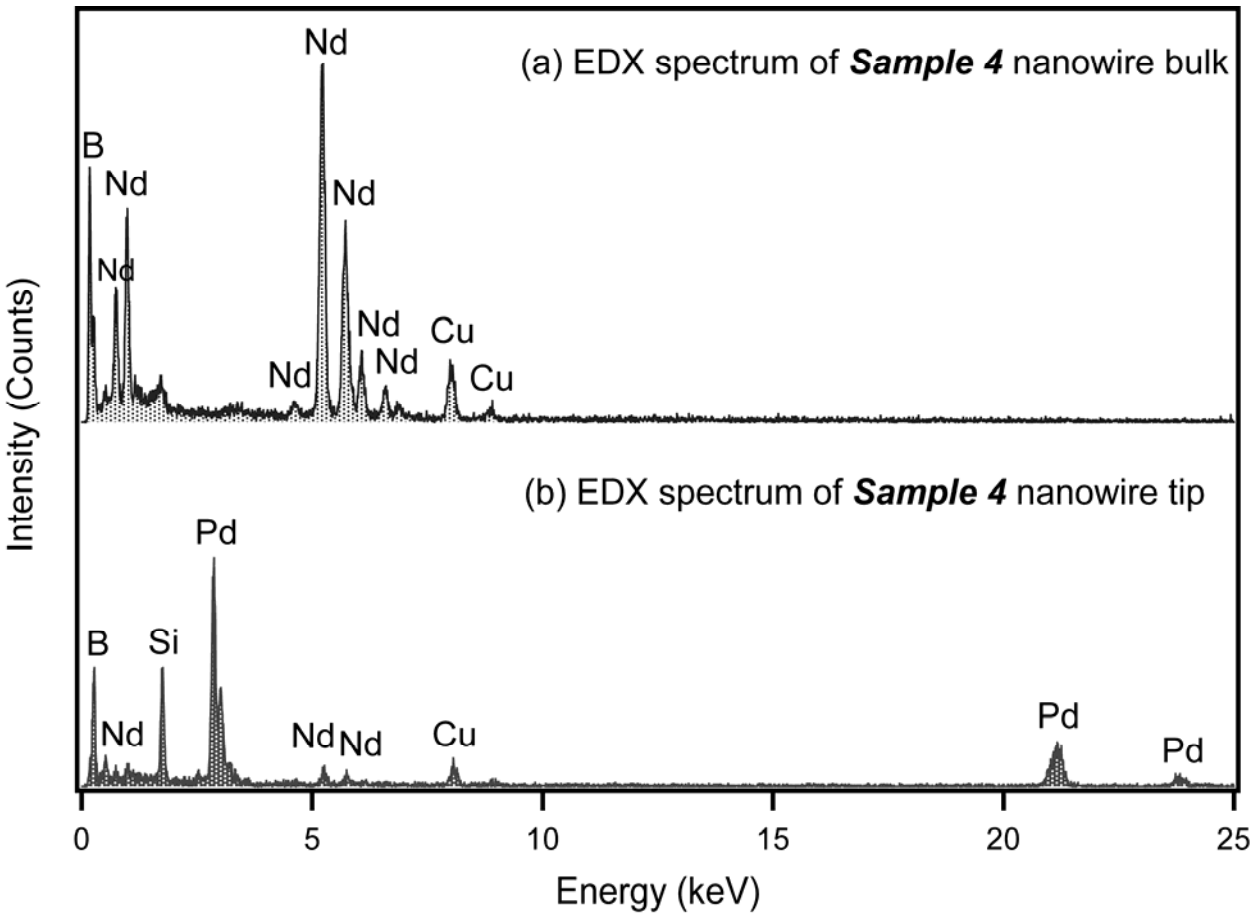

Figure S5. EDX spectra of (a) the bulk and (b) the tip particle of the neodymium boride nanowire synthesized at 940 ºC (***Sample 4***) shown in Figure 2(d).

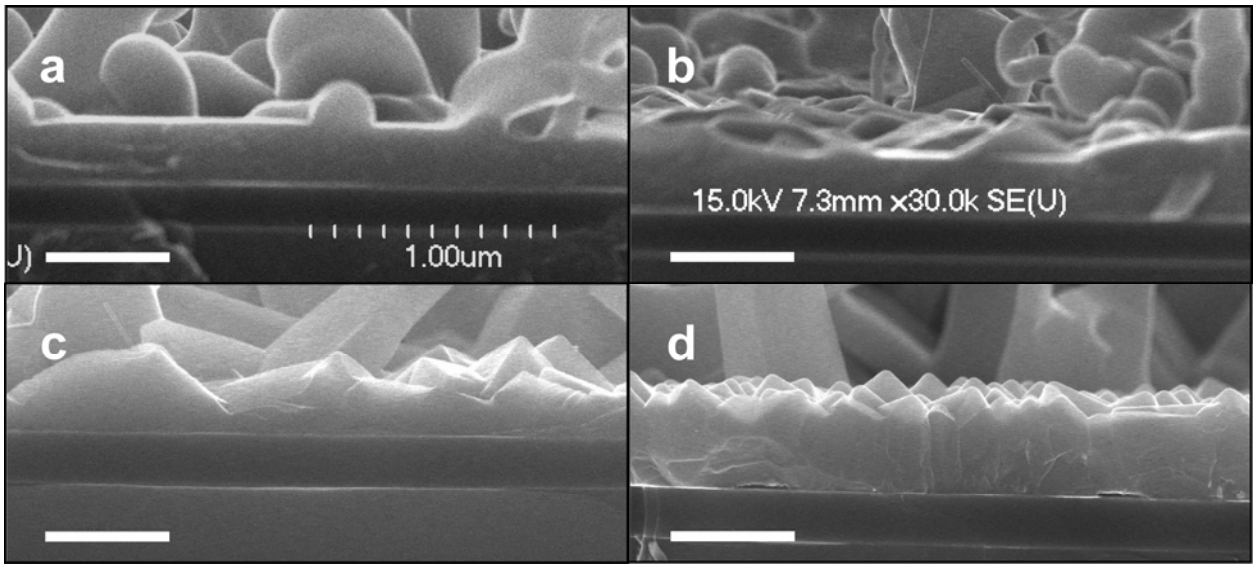

Figure S6. Cross-sectional view SEM images of films at the bottom of neodymium boride samples synthesized by chemical vapor deposition at (a) 795 ºC, (b) 850 ºC, (c) 915 ºC and (d) 940 ºC. The scale bars are 500 nm.