

Supplementary material for

**Anthracene-Assisted Inverse Transport Growth and Superconductivity at 3.3 K
in Unsupported Ultrathin {110} Nb and {0001} NbSe₂ Nanoplates**

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This PDF file includes: **Figs.S1-S2.**

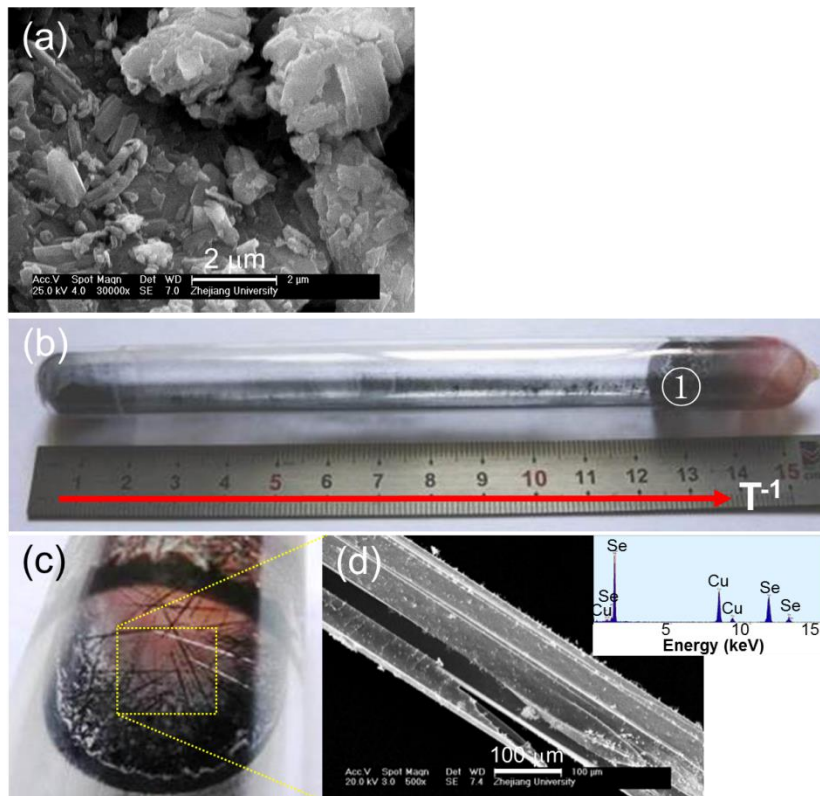


Fig.S1. (a) SEM image of starting NbSe₂ precursors with an average crystal size of about 2 μm. (b) A digital image of a closed-tube vapor-phase growth where an evacuated quartz ampoule was put inside horizontal tubular electric furnace. (c) A digital image of evaporation whisker-like products collected at the low-temperature transfer region (sectional view of the region ① in (b)). (d) SEM image of the yellow dashed box area shown in (c), Inset, a typical EDX spectrum of the whisker-like products in a TEM. Peaks corresponding to pure Se are evident, indicating that Se extraction from the starting material. Cu signals are from copper grid supporting the whiskers.

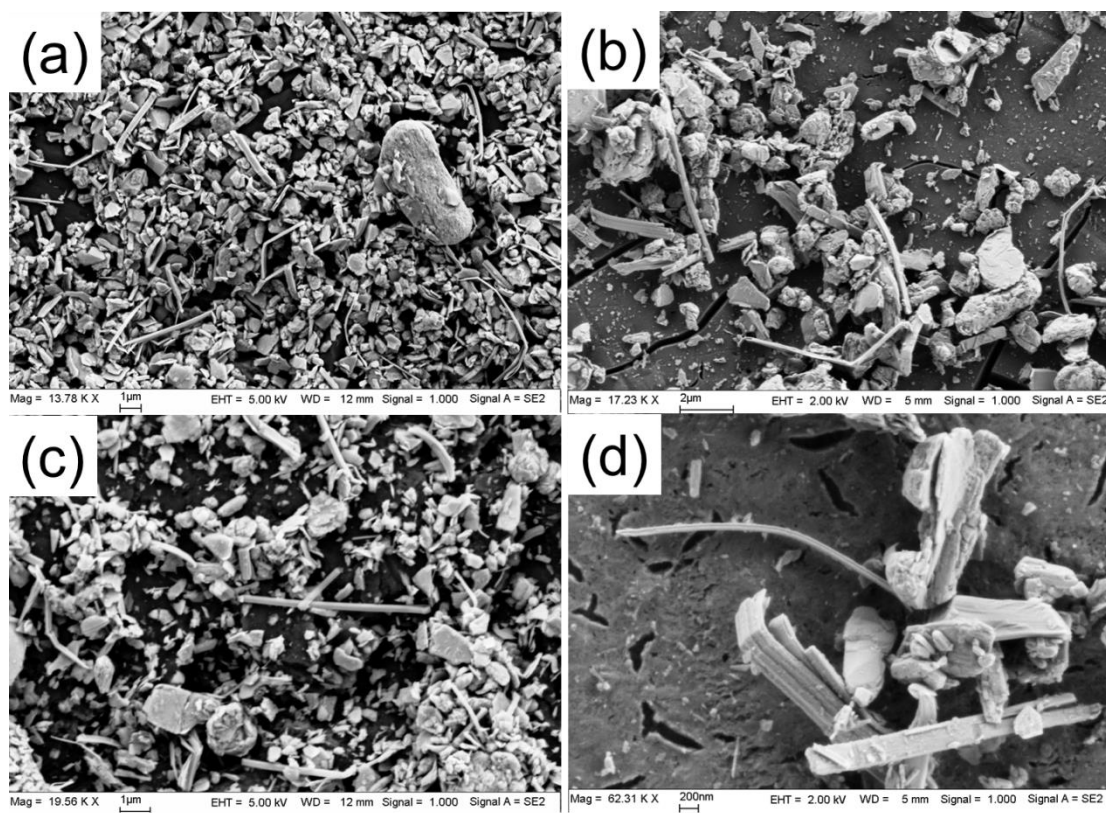


Fig.S2. (a)-(d) SEM images at different magnifications of pure primitive NbSe₂ source after ultrasonic treatment in Ethanol using probe sonicator (Misonix S-4000) with the same working conditions but the processing time up to 10 minutes.