

Materials List for:

Atmospheric Pressure Fabrication of Large-Sized Single-Layer Rectangular SnSe Flakes

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URL: <https://www.jove.com/video/57023>

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Materials

| Name | Company | Catalog Number | Comments |
|----------------------------------|--------------------------------|----------------|---------------------------------------------------|
| SnSe powder | Sigma-Aldrich | 1315-06-6 | (99.999%) toxic, carcinogenic |
| Ar gas | | | explosive |
| H2 gas | | | flammable, explosive |
| SiO ₂ /Si wafer | | | 300 nm thick SiO ₂ on heavily doped Si |
| Acetone | Sigma-Aldrich | 67-64-1 | toxic, flammable |
| Isopropanol | Sigma-Aldrich | 67-63-0 | flammable |
| Quartz tube | Dongjing Quartz Company, China | | |
| Ceramic boat | Dongjing Quartz Company, China | | |
| Optical microscope | Olympus, BX51 | | |
| Atomic force microscopy | Bruker | | Using FastScan-A probe type and ScanAsyst-air |
| Scanning electron microscopy | JEOL JSM-6700F | | |
| transmission electron microscopy | FEI Titan | | |
| Tube furnace | MTI Corporation | | |