

Abstract Submitted  
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**Synthesis of Gallium Oxide Nanowires** KALEB SLAATTHAUG,  
Grove City College — We have synthesized gallium oxide ( $\text{GaO}_2$ ) nanowires by depositing gallium onto a gold-covered silicon wafer at high temperatures. This is done by having a flow of  $\text{N}_2$  gas, kept above atmospheric pressure, pass through a tube furnace at 1000 C through an evaporated gallium sample, allowing the gallium to condense onto the wafer. When the system is held at low pressure, however, no synthesis occurs.

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