

Nanowires Are Extremely Thin - it is Possible to Create and Produce Nanowires With a Diameter of Just one (Nanometer)

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- **Abstract:**

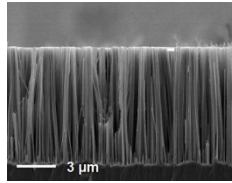
- Nanowires have a structure that has an amazing length-to-width ratio . Nanowires are extremely thin - it is possible to create nanowires with a diameter of just one nanometer, nanowires are used to create the smallest transistors (nanotransistors).

- **Keywords:** Nanostructure , nanomaterials , Nanowires , Silicon nanowires, Nanoelectronic

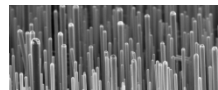
Introduction •

Nanowires can have the properties of an insulator, a semiconductor, or a metal. Insulators do not carry an electric charge, while metals carry an electric charge very well. Semiconductors fall

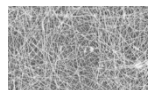
between the two and become charged under the right conditions. By placing semiconductor wires in the right configuration, transistors can be made that act either as switches or amplifiers. Some of the interesting and counterintuitive properties of nanowires are due to their small scale.



Some nanowires are ballistic conductors. In normal conductors, electrons collide with atoms in the conducting material. This causes the electrons to slow down as they move, generating heat as a byproduct. In ballistic conductors, electrons can pass through the conductor without colliding. Nanowires can conduct electricity efficiently without generating extreme heat. By reducing the bulk volume to the size of the nanoparticle, its melting point is lowered, because when you reduce each particle to the nanoscale, there is a significant increase in the surface area to volume ratio. In the fabrication and propagation of nanowires, there is a top-down approach and a bottom-up approach. A top-down approach literally means that you take a large amount of the material you want to use for the nanowires and etch it until you get the right size. A bottom-up approach is an assembly process where smaller particles are joined together to form a larger structure.



Nanotransistors are created using nanowires . And increasing the resistance of the nanowire is directly related to the efficiency and durability of the nanotransistors. And nanoionic transistors perform better than current graphene nanotransistors.



Nanowires have a structure that has an amazing length-to-width ratio . Nanowires are extremely thin - it is possible to create nanowires with a diameter of just one nanometer, nanowires are used to create the smallest transistors (nanotransistors).

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