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Carbon Nanotube And Related Field

Carbon nanotubes (CNTs) have novel properties that make them potentially useful in many applications in nanotechnology, electronics, optics and other fields of materials science. These characteristics include extraordinary strength, unique electrical properties, and the fact that they are efficient heat conductors.

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This nanotube was grown inside a multi-walled carbon nanotube. Assigning of the carbon nanotube type was done by a combination of high-resolution transmission electron microscopy (HRTEM), Raman spectroscopy, and density functional theory (DFT) calculations. The thinnest freestanding single-walled carbon nanotube is about 0.43 nm in diameter.

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Carbon nanotube - Wikipedia

Scientists grow carbon nanotube forest much longer than any other Today, a multitude of industries, including optics, electronics, water purification, and drug delivery, innovate at an unprecedented scale with nanometer-wide rolls of honeycomb-shaped graphite sheets called carbon nanotubes (CNTs).

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The alignment of multiwalled carbon nanotubes (MWNTs) has been accomplished through deposition of uniform layers of magnetite/maghemite nanoparticles (diameter = 6 – 10 nm) and use of an external magnetic field. The coating of CNTs with magnetic nanoparticles was performed by combining the polymer wrapping and layer-by-layer (LbL) assembly techniques.

Alignment of Carbon Nanotubes under Low Magnetic Fields ...

Carbon nanotube field-effect transistor. A carbon nanotube field-effect transistor (CNTFET) refers to a field-effect transistor that utilizes a single carbon nanotube or an array of carbon nanotubes as the channel material instead of bulk silicon in the traditional MOSFET structure.

Carbon nanotube field-effect transistor - Wikipedia

Carbon nanotubes (CNTs) are very prevalent in today's world of medical research and are being highly researched in the fields of efficient drug delivery and biosensing methods for disease treatment and health monitoring. Carbon nanotube technology has shown to have the potential to alter drug delivery and biosensing methods for the better, and thus, carbon nanotubes have recently garnered ...

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Carbon nanotubes in medicine - Wikipedia

Carbon nanotube applications in nanotechnology also include the high aspect ratio resonators and sensors (Fig. 1.12). Carbon nanotube resonators make use of the elongated structure of SWCNTs and their high stiffness (Treacy et al., 1996; Wong et al., 1997). Carbon nanotube sensors, which monitor changes in the frequency of vibrations of SWCNTs (Overney et al., 1993) after the absorption of ...

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