

ALIGNED CARBON NANOTUBES%0A

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Synthesis of aligned carbon nanotubes - ScienceDirect
Vertically aligned carbon nanotubes (ACNTs) are bundles of carbon nanotubes oriented perpendicular to a substrate, and horizontally aligned CNTs are parallel to the substrate.

Carbon Nanotubes -> Aligned Carbon Nanotubes

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Aligned Carbon Nanotube Films: Production and ... - Science

Carbon nanotube material can now be produced in macroscopic quantities. However, the raw material has a disordered structure, which restricts investigations of both the properties and applications of the nanotubes. A method has been developed to produce thin films of aligned carbon nanotubes. The tubes can be aligned either parallel or perpendicular to the surface, as verified by scanning electron microscopy. Vertically aligned carbon nanotube arrays - Wikipedia
Vertically aligned carbon nanotube arrays (VANTAs) are a unique microstructure consisting of carbon nanotubes oriented along their longitudinal axis normal to a substrate surface. These VANTAs effectively preserve and often accentuate the unique anisotropic properties of individual carbon nanotubes and possess a morphology that may be precisely controlled. VANTAs are consequently widely useful.

Aligned carbon nanotubes - Fraunhofer IKTS

In the second case it is the aim to manufacture vertically aligned carbon nanotubes. At Fraunhofer IKTS vertically aligned layers of multi-walled carbon nanotubes (MWCNT) as well as single-walled carbon nanotubes (SWCNT) are deposited on different substrates.

Aligned Carbon Nanotube Films: Production and Optical and ...

A method has been developed to produce thin films of aligned carbon nanotubes. The tubes can be aligned either parallel or perpendicular to the surface, as verified by scanning electron microscopy.

Buckling of Aligned Carbon Nanotubes as Stretchable ...

A new manufacturing strategy for buckling of aligned carbon nanotubes is developed, which does not involve prestretching the substrate but relies on the interface interaction between the nanotubes and the substrate. More specifically, upon stretching the substrate the nanotubes slide on the substrate, but upon releasing the nanotubes buckle. Following this manufacturing strategy, stretchable carbon nanotube films are produced. The Alignment of Carbon Nanotubes: An Effective

Route To ...

To improve the practical application of carbon nanotubes, it is critically important to extend their physical properties from the nanoscale to the macroscopic scale. Recently, chemists aligned continuous multiwalled carbon nanotube (MWCNT) sheets and fibers to produce materials with high mechanical strength and electrical conductivity. This

Optical properties of aligned carbon nanotubes |

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By using a series expression of effective dielectric function ϵ_{eff} , the optical properties of aligned carbon nanotubes arranged in a square array are investigated.