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Label-Free DNA Biosensors Based on Functionalized Carbon

chemical recognition sites and single-walled carbon nanotube field effect transistors (SWNT-FETs) as the electronic readout components. The sensor responses differ in sign and magnitude depending on both the type of ... RNA S1 functionalized carbon nanotube shows 30% increase in the current when exposed to DMMP.

RNA Functionalized Carbon Nanotube for Chemical Sensing

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(PDF) Tip-functionalized carbon nanotubes under electric

Carbon nanotubes can be functionalized via amidation and esterification of the nanotube-bound carboxylic acids. The solubility of these functionalized carbon nanotubes makes it possible to characterize and study the properties of carbon nanotubes using solution-based techniques.

Functionalized Carbon Nanotubes: Properties and

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Field-Effect Transistors Assembled from Functionalized

Functionalized Carbon Nanotube Networks with Field-Tunable Bandgaps. Authors. ... CNTs in the transistor channel can be functionalized by electrochemical hydrogenation driven by gate voltages, which tunes CNT bandgaps continuously and reversibly to nonvolatile analog values between 0 and 3.2 eV. ... Standard PDF (520.8 kB) Ancillary Article ...

Functionalized Carbon Nanotube Networks with Field-Tunable

Synthesis of monodispersed nanoparticles functionalized carbon nanotubes in plasma-ionic liquid interfacial fields K. Baba, T. Kaneko, R. Hatakeyama ... (DWNTs) carbon nanotubes are synthesized using a plasma technique combined with the introduction of ionic liquids under low gas pressures. Owing to the synthesis in nano-spaces of the SWNTs ...

Synthesis of monodispersed nanoparticles functionalized

Chemically Functionalized Carbon Nanotubes Kannan Balasubramanian and Marko Burghard* Artist's view of carbon nanotubes functionalized with fluorescing particles. ... external electric field, which makes them suitable for use as high-performance field-effect transistors.[19] As-prepared

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nanotubes by low magnetic field ...

Effect of electric field induced alignment and dispersion

Functionalized Carbon Nanotube Nanocomposite Membranes . U.S. Department of the Interior . Bureau of Reclamation . Technical Service Center ... charges were placed on the rim atoms of the nanotubes, and an external field was applied along their axis. As shown in the simulation results, the ion occupancy in ...

Transport in Zwitterion- Functionalized Carbon Nanotube

We have pioneered the idea of using functionalized carbon nanotubes (CNT) to enhance thermionic emission, and developed an enhanced thermionic thin film emitter based on carbon nanotubes. ... S. Little, "Enhanced field emission from carbon nanotubes with a thin layer of low work function barium strontium oxide surface coating," published in ...

FIELD ENHANCED THERMIONIC EMITTERS/FUNCTIONALIZED CARBON

US7611906B2 - Functionalized carbon nanotubes - Google Patents Functionalized carbon nanotubes Download PDF Info Publication number US7611906B2 ... Label-free DNA biosensors based on functionalized carbon nanotube field effect transistors: Koehne et al. 2003:

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Functionalized carbon nanotubes and graphene-based materials for energy storage Bin Wang,ab Chuangang Hua and Liming Dai*a Carbon nanotubes (CNTs) or graphene-based nanomaterials functionalized by different strategies have ... along with challenges and perspectives in this exciting field. 1. Introduction Supercapacitors (also called as ...

Functionalized carbon nanotubes and graphene-based

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