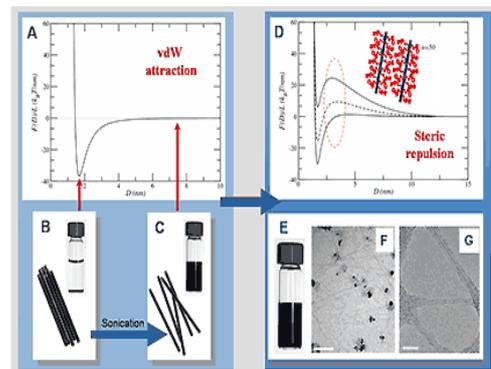


Dispersion of Carbon Nanotubes

Carbon Nanotubes (CNT) have fascinating properties and have been attracting scientific as well as technological attention in the last few years. Their superb mechanical properties make them desirable as reinforcing fillers in polymeric matrices forming light weight super strong meso-composites. One form of these nanotubes is single walled carbon nanotubes or SWNT. However, this form tends to assemble into bundles or ropes arranged in a close packed lattice or network that limits their use in most applications.

This novel invention provides a method for exfoliation of carbon nanotubes that enables the formation of stable dispersions while preserving their unique properties. This method was found applicable for both aqueous and organic suspensions. The carbon nanotubes dispersed using this method may be stored in a ready to use powder.



Benefits

- A method for selective dispersion of carbon nanotubes in solutions.
- The interfacial engineering of the CNT takes place in both aqueous and organic media

Potential Commercial Uses and Strategic Partners

Carbon Nanotubes can be metallic or semiconducting and offers amazing possibilities to create future nanoelectronics devices, circuits, and computers.

Researcher

Dr. Rachel Yerushalmi-Rozen, Dep. of Chemical Engineering, ILSE KATZ Center for Meso and Nanoscale Science and Technology, Ben-Gurion University, Beer-Sheva, Israel

Patent Status

Patent pending

Contact for Licensing and Investment Information

Zafir Levy, Director of Business Development, BGN Technologies, E-mail: zafir1@bgu.ac.il