

# **Nanotechnology (Polymeric Nanofibres, Nanospheres for Photoluminescence, Nanospheres for Photoluminescence, Synthesis of Magic-Sized Nanocrystals, Magnetic Nanostructures, Mechanism of Anodic Alumina, Swnt Reinforced Composites, Platinum Coated Prodes, Na**

## **Description:**

Nanotechnology ("nanotech") is manipulation of matter on an atomic, molecular, and supramolecular scale. The earliest, widespread description of nanotechnology referred to the particular technological goal of precisely manipulating atoms and molecules for fabrication of macroscale products, also now referred to as molecular nanotechnology. A more generalized description of nanotechnology was subsequently established by the National Nanotechnology Initiative, which defines nanotechnology as the manipulation of matter with at least one dimension sized from 1 to 100 nanometers. This definition reflects the fact that quantum mechanical effects are important at this quantum-realm scale, and so the definition shifted from a particular technological goal to a research category inclusive of all types of research and technologies that deal with the special properties of matter which occur below the given size threshold. It is therefore common to see the plural form "nanotechnologies" as well as "nanoscale technologies" to refer to the broad range of research and applications whose common trait is size. Because of the variety of potential applications (including industrial and military), governments have invested billions of dollars in nanotechnology research. Until 2012, through its National Nanotechnology Initiative, the USA has invested 3.7 billion dollars, the European Union has invested 1.2 billion and Japan 750 million dollars.

**For more details download PDF file.**

**Keywords:** Nanotechnology, Nanotechnology Products, Processing of Polymer Nanofibers, Electrospinning, Electrospinning of Polymer Nanofibers, Synthesis of Nanostructures, Preparation of AU-MWNT Hybrids, Fabrication of AU-MWNT Hybrids, Formation Mechanism of AU-MWNT Hybrids, Hole Fabrication, Mechanism of Hole Fabrication, Multi-Walled Carbon Nanotube Tip, Biohybrid and Bioinspired Nanodevices, Co-Cluster, Magnetic Cluster, Micelle Coalescence or Curing, Biopolymer Folding, Silk Processing, Device Fabrication

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