

Nanoscience and Nanotechnology (Semi-Conducting Nanoclusters, Leaching Studies, Silicone Oxide Nanostructures, Carbon Nanofibers, Molecular Carbon-Onions, Gold-Silica Nanocomposites, Cobalt Ferrite Nanoparticles, Carbon Nanotube Field-Effect Transistor, C

Description:

Nanotechnology is the engineering of functional systems at the molecular scale. In its original sense, nanotechnology refers to the projected ability to construct items from the bottom up, using techniques and tools being developed today to make complete, high performance products. In this rising world of rapid technological developments, the role of state of art materials & composites is pivotal in frontier applications like aerospace, aviation, automobile, defense, electronics, chemical, biomedical, energy & nuclear sectors etc. with the advent of 21st century & initiation of Nanotechnology the atomic & molecular structures of materials is redefined. This shall result in new smart materials namely nanoparticles, powder, wires, rods, carbon nano tubes & so on. Nanotechnology is very diverse, ranging from novel extensions of conventional device physics, to completely new approaches based upon molecular self-assembly, to developing new materials with dimensions on the nanoscale, even to speculation on whether we can directly control matter on the atomic scale. Potential of nanotechnology to manipulate and program matter with atomic precision has invited the attention of scientists to explore innumerable applications of nanotechnology was an inspiration for the benefit of researchers, academicians and industries associated with this field. The global market for nanotechnology products is worth an estimated compound annual growth rate (CAGR) of 11.1% from 2010 to 2015. The largest segment of the market, made up of nanomaterials, is expected to increase at a 5 year CAGR of 14.7%.

For more details download PDF file.

Keywords: Nanoscience, Sulphuric Acid on Grapheme, Metastabilities in Nanocrystalline, Interaction of Sulphuric Acid with Graphene, Sulphuric Acid in Gas and Solid Phases, Sulphuric Acid on Graphene, Nanowire Morphology, Periodicity and Diameter, Chemical Analysis of Copt/Pt Nanowires, Thermopower Measurements on Nickel Nanowires, Structural Characterization of Nws, Multi-Walled Carbon Nanotube Emitters Experiment, Fabrication of Cnt Cathode, Cathode Support Structure Geometry, Vibration of Carbon Nanotub

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