

Editorial

Welcome to the third volume and thank you for reading NH. In this volume we have assembled articles from different research groups covering a wide range of research area, like, kinetic study of hybrid nano particles, synthesis and isolation different nano particles, nanowires (Ag, Alpha Alumina, Si, ZnO) and its application, optoelectronic and ferroelectric properties of hybrid nano particles. Nanotechnology is still in its early phase of growth. Fundamental understanding and tools are still in the pipeline of new ideas and innovations. In the coming decades, nanotechnology based research is likely to flourish and its focus will shift to the solution, driven by the the socioeconomic needs, with significant consequences for science & engineering, investment, and regulatory policies. Control of material at the nanoscale, is already playing a significant role in scientific disciplines as diverse as physics, chemistry, materials science, biology, medicine, engineering, and computer simulation. From the present perspective we can say that this technology has the potential to bang in every sector of our life. As understanding develops of the way natural and living systems are governed by the molecular behavior at the nanometer scale and as, this understanding begins to be felt in science and medicine, researchers seek systematic approaches for nanoscale-based manufacturing of human made products.

In the Nanotechnology Research Directions report of the U.S. Interagency Working Group on Nanoscience, Engineering and Technology; Nobel Laureate Professor Horst Ludwig Störmer articulated the vision: “Nanotechnology has given us the tools. . . to play with the ultimate toy box of nature —atoms and molecules. Everything is made from it. The combination of our top-down tools and methods with self-assembly on the atomic scale provides an impressive array of novel opportunities to mix-and-match hunks of chemistry and biology with artificially defined, person-made structures. The possibilities to create new things appear limitless.” So, the future looks bright and the amount of effort given by the scientific, industrial and government organization is enormous. But, this technology has huge power to change things the way we look today and we hope that we will use it responsibly for our benefit.

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Chief Editor