

## Editorial

This is the first and historic issue of “Current Nanoscience”. In the last two decades and particularly in the last 10 years, nanoscience has evolved rapidly. Molecular analysis techniques are now being developed using nanocluster optical resonance devices. The optical properties of metallic nanostructures are being studied with the purpose of developing material systems for micro- and nano-optic devices. Electrospray is being used to generate nanoparticles and nanodots to allow separation according to their size, and to disperse them as nanomaterials for instance in mass-spectroscopy of biomolecules utilising nano-electrospray. The synthesis of inorganic nano-materials is being facilitated by a growing understanding of the properties of ionic liquids. Single-walled carbon nanotube – based field effect transistors are being developed with good memory effects. Nano-systems (including nano-sized drug carrier systems, such as polymeric nanoparticles, liposomes, micelles and polymer-drug conjugates are being employed for targeting drugs to specific body sites. Nanoflow liquid chromatography is being applied successfully to applications in the fast growing field of proteomics. Nano-scale DNA computing devices are being developed which may one day replace silicon-devices with nano-scale molecular-based computational materials.

These and other exciting areas are covered in comprehensive reviews written by eminent experts. It is hoped that this journal will soon become the foremost scientific review journal in this rapidly developing field.

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