

Editorial Note on Nanotechnology & Nanomaterials

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INTRODUCTION

Nanotechnology is that the engineering of practical systems at the molecular scale. whereas nanomaterials are an area of our existence for quite it slow, the past 20 years have witnessed a quick growth of the engineering science sector. Engineering science is being employed in many applications to boost the surroundings and to supply additional economical and efficient energy, like generating less pollution throughout the manufacture of materials, manufacturing star cells that generate electricity at a competitive price, cleanup up organic chemicals polluting groundwater, and cleanup volatile organic compounds (VOCs) from air.

In this special issue the papers given square measure dedicated to the subsequent. 1st is nanomaterials for building and construction, namely, a numerical and sensitivity analysis of the total heat and melting temperature impact on the within building comfort sensation potential of the covering mortar natural process materials (PCM). Building parts with incorporated PCM square measure meant to extend heat storage capability and change stabilization of interior buildings surface temperatures whereby influencing the thermal comfort sensation and therefore the stabilization of the inside close temperatures. Second is engineering science for water treatment, like a review of the doable applications of the nanoparticles/fibers for the removal of pollutants from water/wastewater. The work given overviews the supply and follow of various nanomaterials for removal of nice variety pollutants gift in surface water, H₂O, and industrial water. many recommendations

square measure created supported the present practices of engineering science applications in water trade. Third work presents the separation of TiO₂ photocatalyst nanoparticle. The results showed that activity of TiO₂ nanoparticles is influenced by ionic strength and hydrogen ion concentration. Fourth is engineering science for chemical science conversion and energy storage, like the progress update with the event of nanodielectric composites with force field tunability for varied high energy and high power electrical applications. Fifth is nanostructures, like the numerical analysis of many zigzag and armchair single-walled carbon nanotubes (CNTs), to review the wave behaviour. The results given showed that natural frequency of straight armchair and zigzag CNTs will increase with the rise of the chiral variety of each armchair and zigzag CNTs. it had been conjointly discovered that the natural frequency of CNTs with higher chirality decreases by introducing bending angles. Sixth is nanomaterials for star cells, namely, the use of nanostructure graphene skinny films as negatron transfer layer in dye-sensitized star cells. Those materials square measure of specific interest within the field of solar power as a result of their low price and ease of fabrication. Seventh is nanocomposites, namely, the influence of process sort within the morphology of membranes obtained from PA6/MMT nanocomposites. Nanocomposites have an intensive use within the current method of membrane preparation, taking under consideration their distinctive options as membranes. Eighth paper presents the analysis of thermomechanical behaviour throughout heating of nanocomposites of epoxy glue containing clay clay.

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