

Note on Nanocomposites in Engineering Applications

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INTRODUCTION

Advanced polymer-based nanocomposite materials have gained quality for wide engineering applications with rising just about every type of product and commercialization of product that exploit their distinctive mechanical, thermal, and electrical properties. However, these properties gift new challenges to grasp, predict, and manage potential adverse effects, like toxicity impacts exposure to human lives and surroundings. Thus, widespread applications of nanomaterials induce monumental potentials absolutely and negatively for human exposure and environmental unharness. Federal budget additionally emphasizes these implications and it's expected that the whole annual take into account varied sectors from the National engineering science Initiatives can increase well within the coming back years.

The applications of nanostructure resins for biological applications are conducted in vitro and in vivo environments in analysis within the past few years. The analysis concerned however the resins will bond for biocompatibility to bone for repair once breaking, teeth for filling, different varied styles of tissues for wound healing, and so on. Natural and artificial chemical compound materials are

found to be appropriate for tissue engineering applications. For AN example, silk (like cocoon or spider) fiber/biodegradable compound biocomposites are used for tissue engineering (scaffolding) for bone repair. several researches have additionally incontestable the utilization of nano structural materials as reinforcements, like nano mineral, nanoclay, and nanofibers (polymer-based or carbon nanotubes) to boost the mechanical properties and thermal stability of bio compatible polymers for artificial joints and system. Tissue engineering is one such side that utilizes each engineering and bioscience disciplines to either maintain existing tissue structures or to modify tissue growth. moreover, tissue-engineered organs is utilized in testing procedures, reducing or eliminating the requirement for animal subjects. Nano biotechnology is AN knowledge domain field ensuing from the interfaces between biotechnology, materials science, and engineering science.

This special issue "Nanocomposites for Engineering Applications" covers a large vary of papers contributed by authors round the world on the nanocomposites and their structural and mechanical properties. This aim is to produce a platform for scientists and researchers to exchange and share concepts and findings within the field.

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