Special Issue

Carbon Nanotube-Based Nanocomposites

Message from the Guest Editor

This Special Issue will address advances in materials science, processing, characterization, technology development, and application of nanocomposites based on carbon nanotubes. Carbon nanotubes (CNTs) are widely studied due to their outstanding mechanical, thermal, and electrical properties. To achieve the full potential of CNTs, two critical issues have to be solved: (i) the homogeneous dispersion of CNTs in the matrix and (ii) the interfacial bonding between the CNTs and the matrix. Original papers are solicited on production technologies of CNT-based nanocomposites with all types of matrices. The main problem in the application of CNT-based nanocomposites is the repeatability of the material properties, filtration and re-agglomeration of nanofiller, difficult processability, and in many cases, safety regulations. Of particular interest are recent developments in advanced composites, processes, characterization, and design. Articles and reviews dealing with CNT-based polymer, metal, and ceramic matrix nanocomposites for different market applications, including automotive, aerospace, energy storage, and fuel cells are very welcome.

Guest Editor

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closed (30 June 2021)

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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