Special Issue

Non-destructive Evaluation of Composite Materials (Second Volume)

Message from the Guest Editor

The production of composite materials is growing very rapidly, and it is expected to continue to increase at a rate of 10 to 13 percent over the next few years. An even faster development in the use of polymer composites can be enhanced by non-destructive evaluation (NDE) techniques that can verify properties, determine structural integrity, monitor performance over time and test the quality of the products to ensure that their specifications are met.

For composites enriched with nanoparticles, a non-destructive evaluation technique capable of testing their dispersion would be of great use to the industry since it is well known in the literature that it is the parameter that much more than others can influence all the final physical properties. Few NDE techniques can be found in literature which are able to evaluate the level of dispersion of the nanoparticles in the whole nanocomposite, but they are quickly increasing in number.

The non-destructive techniques capable of detecting defects are numerous, for example: ultrasonic, thermography, acoustic emission, eddy current, X-ray, shearography, dielectric techniques, and variation-damping method.

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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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