Special Issue

Sensing and Monitoring Technologies in Composite Materials

Message from the Guest Editors

This Special Issue covers various key techniques and approaches for composite material testing and quality assurance. These include: Composites non-destructive testing (NDT). The use of eddy current testing, ultrasonic testing, X-ray, and thermography to detect internal defects or damage without damaging the material. Thermal, physical, and mechanical testing: A range of testing methods used to evaluate the properties of composite materials under different conditions, including testing for strength, stiffness, thermal conductivity, electrical properties, and other relevant characteristics. Automatic process monitoring for composite production: The use of sensors and other monitoring techniques to monitor parameters such as temperature, pressure, electrical conductivity, and viscosity during the manufacturing process. Destructive testing of composite materials: The use of a range of destructive tests to evaluate the strength and quality of the material. By incorporating these techniques into composite manufacturing and maintenance processes, industries can ensure the durability and reliability of their composite materials and products.

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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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