

## Special Issue

# Structural Health Monitoring of Polymer Composites

### Message from the Guest Editors

Nondestructive testing (NDT) techniques are usually used for the characterization of defects arising in composite materials during manufacturing or during in-service use. NDT techniques such as ultrasonic waves, X-ray radiography, X-ray tomography, infrared thermography, and acoustic emission are the most commonly used in various industrial applications. Each of these NDT techniques has its own detection and characterization potential. Thus, depending on the damage mechanism involved, the part geometry, and the in-situ conditions of use, one technique may be preferred over another, or several techniques may be combined in order to improve the diagnosis of the damage state of composite structures and to allow a reliable monitoring of the material's or component's structural health in view of in-service performance assessment and residual durability prognosis. This Special Issue welcomes papers on the latest advances and developments in nondestructive detection, characterization, and health monitoring of structural composite materials and composite structures.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 December 2024)



## Materials

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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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