Special Issue

Advances in Composite Materials: Non-destructive Testing and Multi-Scale Analysis of Structures and Properties

Message from the Guest Editors

Composite materials possess outstanding properties, including low weight, high strength, fatigue resistance, and tunable designs, compared with traditional engineering materials. This Special Issue aims to focus on the characterization and analysis of structures and properties of composite materials at different length scales, using the NDT, multi-scale, together with artificial intelligent approaches, including ultrasonic testing, acoustic emission technique, radiographic testing, computer vision inspection, theoretical calculations, constitutive modeling and simulation, molecular simulations, machine learning, etc. We aim to particularly focus on the joint efforts of multidisciplinary techniques to characterize the structural defects and properties degradation of the composites, including, but not limited.

Guest Editors

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Deadline for manuscript submissions

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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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