

Special Issue

Advances in the Nondestructive Testing of Construction and Building Materials

Message from the Guest Editor

Non-destructive methods are typically used to characterize defects arising in construction materials during manufacturing or use. Each NDT method has its own detection and characterization potential.

Depending on the damage mechanism used or the in situ conditions, one method may be preferred over another, or several methods may be combined to improve the diagnosis of the damage condition of the structure or material under investigation. In this Special Issue, original research articles and reviews are welcomed. Research areas may include (but are not limited to) the following.

- Testing of building materials and elements in building engineering;
- Testing of structures made of novel concrete materials (e.g., green concrete, alkali-based concrete, etc.);
- Real-time damage detection and imaging;
- Novel algorithms for non-destructive testing (NDT) data analysis;
- Artificial intelligence and machine learning applications for data analysis from NDT measurements;
- Health and stability monitoring in building engineering using NDT methods;
- Other non-destructive testing methods for composite materials.

We look forward to your contributions.

Guest Editor

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About the Journal

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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