

## Special Issue

# Advances in Nondestructive Evaluation of Materials and Structures

### Message from the Guest Editor

This Special Issue of *Materials* is intended to cover a broad spectrum from conventional to advanced NDE, including new methods, instrumentation, sensors, detection and characterization, and data analytics as applied to all types of engineering materials and structures in all industrial sectors for material processing monitoring, product quality control, structural condition monitoring, life estimation, and related areas. This Special Issue will cover a wide range of research topics that are relevant to NDE, including, but not limited to, the following:

- NDE of additively manufactured products, metamaterials and batteries
- Metamaterials-based sensing and applications
- Defect detection, imaging, and characterization
- Material state relations - stress, strain and mechanical properties
- Corrosion, leakage, microcracks and microdamage
- Phased array techniques and signal processing
- Guided wave inspection and acoustic emission
- Nonlinear ultrasound and time reversal
- SHM and condition estimation
- Machine learning and artificial intelligence

### Guest Editor

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### Deadline for manuscript submissions

closed (20 February 2024)



## Materials

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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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