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Advances in Nondestructive Evaluation of Materials and Structures

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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













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Message from the Editor-in-Chief

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