Special Issue

Micro Non-destructive Testing and Evaluation

Message from the Guest Editor

At present, sub-millimeter size components or even assemblies are pervading the industrial and scientific world. Testing such components or their miniaturized parts would fit well within the topic of micro non-destructive testing and evaluation. In all cases, performance and integrity testing, quality control, and dimensional tolerances need to be measured at sub-millimeter level (ideally with a spatial resolution of about a micron). The splits between testing and characterization at micro-level (or of micro parts) from one side and handling of macroscopic assemblies on the other represent a great challenge for many fields of materials characterization. On top of that, including the use of microscopic methods to test integrity would add a further level of complexity. Imaging, mechanical testing, measurement of properties, structural health monitoring, and dimensional metrology need to be re-defined if we want to cope with the multi-faceted topic of micro non-destructive testing and evaluation. This Special Issue aims at presenting the progress made and the different aspects of the challenge as well as at indicating the paths for the future of NDTE.

Guest Editor

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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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