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## Non-destructive Inspection with Sensors

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### Message from the Guest Editor

Continual advancements in the fields of materials engineering, materials synthesis, and structural engineering have fueled numerous innovations, especially with the development of structures with properties that are enhanced through the use of lightweight materials, composite materials, or novel structural designs. Recent advances in materials and synthesis processes have enabled the fabrication of structures or devices with unique mechanical properties or failure modes. Contrary to many traditionally engineered and fabricated structures, these emerging systems require unprecedented tools to support initial qualification, monitoring, and end-of-life prediction. These devices and structures cannot be readily evaluated using traditional sensors or sensor systems, whether due to sensor geometry, detection resolution, materials compatibility, application environment, or system automation.

This Special Issue of *Sensors* is dedicated to sensors that can meet the emerging needs for the nondestructive inspection of novel materials, systems, and manufacturing processes.



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# Special Issue



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## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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