

Special Issue

Thermography Techniques for Examination of Metals

Message from the Guest Editors

Non-destructive testing and evaluation (NDT&E) plays an increasing role in the modern industry. If compared to the traditional NDT&E approaches (such as X-ray, ultrasonic, and eddy current, etc.), thermography has advantages such as fast, safe, inexpensive, and large detection area. Recently, thermography techniques, especially the active infrared thermography, are extremely attractive to scientists and the public.

Thermography techniques have been widely used in aerospace, petrochemical, automotive and other fields, becoming a key way to solve some difficult engineering problems. This Special Issue is focused on non-destructive testing and evaluation (NDT&E) via mid-infrared and far-infrared thermography. Both theoretical research and industrial application are welcome, which are within but not limited to the following fields:

- Multimode thermography techniques.
- Interaction between physical field and material.
- Applications in material evaluation field.
- Signal analysis and feature extraction algorithms.
- Advanced industrial applications
- Image processing.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

Prof. Dr. Yong Zhang

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