

## Special Issue

# Advances in Defect Detection of Composite Materials

### Message from the Guest Editor

Advances in composite material development and manufacturing have resulted in an increase in the number of different composite materials in use today. As a result, there has been an increase in the need to detect defects and their evolution when such materials are in use. As *Materials* aims to publish papers that advance the understanding of the structure, properties, and functions of all kinds of materials, this Special Issue will focus on composite materials and, specifically, advances in the detection and understanding of how defects evolve and affect material performance across use cases. Particular interest will be placed on multiscale defect detection. This Special Issue aims to publish original research that advances defect detection in composites, leading to improvements in the manufacturing of these materials and allowing for the prediction of the materials' response during use. Emphasis on the experimental validation of detection methods is of primary interest, though the use of simulations for defect prediction of defects and evolution is also encouraged.

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### Guest Editor

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### Deadline for manuscript submissions

20 December 2025



## Materials

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Impact Factor 3.2  
CiteScore 6.4  
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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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### Editor-in-Chief

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