

Special Issue

Damage Analysis for Composite Materials: Methods, Testing and Evaluation

Message from the Guest Editors

This Special Issue is intended to act as a contributor to the discussion of addressing damage extension assessment and the outcomes on load bearing capacity and fatigue behavior and to future developments on this theme. The analysis of the damage propagation process in these materials and damage evaluation methods based on data extracted via image processing of holes machined in composites are of prime importance. Normally, the machined holes are analyzed by different NDT (Non-Destructive Testing) based on visual inspection, microscopy, digital enhanced radiography, ultrasound, active and passive thermography, laser shearography, and digital image correlation. The images resulting from the NDT are processed by diverse means to establish a numerical assessment of the damage. The use of NDTs and the correlation between damage extension and bearing load properties is a major driving theme that will be deeply discussed in this Special Issue. It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editors

Prof. Dr. Luís Miguel Pereira Durão

Department of Mechanical Engineering, ISEP, Polytechnic of Porto, Porto, Portugal

Prof. Dr. Nuno Calçada Loureiro

Department of Industrial Production Engineering, Instituto Superior de entre Douro e Vouga, Santa Maria da Feira, Portugal

Deadline for manuscript submissions

closed (20 February 2024)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/151337

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)





Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)



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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Condensed Matter Physics)