

Special Issue

Composite Production and Performance Evaluation for Upcoming Transportation Technologies

Message from the Guest Editor

This Special Issue establishes a multidisciplinary forum for recent advances, challenges, and trends in composites, manufacturing, and performance analysis for aviation and automotive engineering.

Research emphasizes advanced fabrication—automated fiber placement, additive manufacturing, hybrid integration—to enhance efficiency and reliability. Aviation requires high-temperature resistance, fatigue tolerance, and multifunctional performance; automotive focuses on lightweighting, crashworthiness, and recyclability. Emerging trends like nanocomposites, smart materials, and digitalization (AI, digital twins, predictive modeling) bridge lab innovation with industrial deployment.

Topics include innovative materials (carbon/natural fiber composites, hybrid laminates), automated fabrication, computational modeling, AI-driven optimization, structural health monitoring, non-destructive testing, and multi-scale analysis, highlighting lightweighting, sustainability, and smart functionality for evolving industry needs.

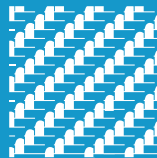
Guest Editor

Dr. Ahmad Hamdan Ariffin

Research Centre for Unmanned Vehicle, Universiti Tun Hussein Onn Malaysia, Parit Raja 86400, Johor, Malaysia

Deadline for manuscript submissions

20 July 2026



Journal of Composites Science

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.8



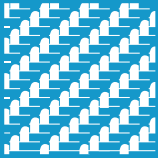
mdpi.com/si/266667

Journal of Composites Science
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcs@mdpi.com

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

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





Journal of Composites Science

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.8



mdpi.com/journal/

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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Dr. Francesco Tornabene

Department of Innovation Engineering, University of Salento, 73100
Lecce, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec,
CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Materials Science, Composites) / CiteScore - Q1
(Engineering (miscellaneous))