Special Issue

Advances in Carbon Fiber Reinforced Polymers (CFRPs)

Message from the Guest Editors

Carbon fiber-reinforced polymers (CFRPs) have become advanced composite materials due to their exceptional strength-to-weight ratio, corrosion resistance, and outstanding mechanical performance. In this context, recent advances focus on optimizing manufacturing processes, such as automated fiber placement, and improving matrix materials to enhance their thermal and structural properties. Additionally, innovations in recycling technologies address the environmental impact of CFRPs, fostering sustainability and improving their lifecycle. Although the most common applications today are in the aerospace, automotive, and renewable energy sectors, where their versatility and growing demand have been demonstrated, there are other sectors in which CFRP can be used in many different ways, such as in medical technology, robotics, automation technology, measurement technology, and optics, as well as in the sports and leisure sector. This Special Issue aims to highlight the main advances in material development, processing techniques, manufacturing processes and applications, providing a comprehensive overview of CFRP innovation and future prospects.

Guest Editors

Prof. Dr. Miguel Álvarez Alcón

Prof. Dr. Fernández Zacarías Francisco

Prof. Dr. Pedro Francisco Mayuet Ares

Deadline for manuscript submissions

30 August 2025

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/227620

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

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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