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Advances in Carbon Fiber/Resin Matrix Polymer Composites

Guest Editors:

Dr. Rajab Abousnina

School of Civil and Mechanical Engineering, Curtin University, Perth 6102, Australia

Dr. Wensu Chen

Centre for Infrastructural Monitoring and Protection, School of Civil and Mechanical Engineering, Curtin University, Perth 6102. Australia

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Message from the Guest Editors

Recent carbon fiber/resin matrix polymer composite advancements have led to significant innovation across various sectors. Automated techniques like fiber placement and tape laying have improved manufacturing processes, and researchers have focused on enhancing carbon fiber properties as well as exploring tailored fiber architectures. Novel resin systems, such as advanced thermosetting and thermoplastic matrices, have contributed to superior mechanical properties. Nanotechnology, such as carbon nanotubes and graphene, has been used to strengthen these materials. Multifunctional composites have emerged, incorporating sensors, actuators, and thermoelectric elements for applications like structural health monitoring and energy harvesting. This Special Issue will invite papers in this field.













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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, OC H3A 0C7, Canada

Message from the Editor-in-Chief

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