

Special Issue

Intelligent Manufacturing and Inspection of Advanced Composites

Message from the Guest Editors

Polymer composite materials are widely used in aerospace, infrastructure, transportation, energy, marine, and consumer goods applications due to their superior mechanical properties, corrosion resistance, design customizability, and processing versatility. Advances in automation technologies, digital design tools, sensing, and artificial intelligence are transforming traditional composite manufacturing and catalyzing a shift toward intelligent, data-driven processing paradigms with minimal human intervention, faster production speeds, lower costs, and reduced material waste.

This Special Issue welcomes original review articles and research articles on topics pertaining to the intelligent manufacturing and inspection of polymer composites with structural or multifunctional applications. Studies on polymer composites with particles, short fibers, or continuous fibers as reinforcing entities will be considered.

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Message from the Editor-in-Chief

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