

Special Issue

Polymer Composites: Fiber Architecture, Interfacial Engineering, and Processing

Message from the Guest Editors

Polymer composites are increasingly central to high-performance applications across sectors, from transportation, energy, and construction to consumer goods and emerging technologies. This Special Issue invites original research on advances in fiber-reinforced polymer composites, with a focus on materials design, interfacial phenomena, and scalable processing technologies. We encourage submissions addressing a wide range of fiber types, including glass; carbon; aramid; basalt; natural polymer fibers; ultra-high-strength monocrystalline fibers, such as silicon carbide; and high-performance polyethylene. We invite contributions on composite processing techniques, covering both established and emerging methods. For thermosetting systems, this includes manual lay-up, spray lay-up, vacuum infusion, the autoclave consolidation of preregs, compression molding, pultrusion, sheet molding compounds, and filament winding. For thermoplastic composites, injection molding and extrusion are of particular interest, especially in relation to fiber dispersion, orientation, and interface control.

Guest Editors

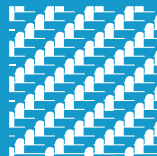
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Editor-in-Chief

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