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The Design and Development of Thermoplastic Composites

Guest Editor:

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Deadline for manuscript submissions:
closed (10 April 2024)

Message from the Guest Editor

Dear Colleagues,

The development of thermoplastic composites has revitalized composite science, attracting the interest of materials researchers around the world while providing new application prospects for composite materials. The unique advantages of thermoplastic composites, such as short manufacturing periods and high designability and weldability, make them ideal candidates for structural materials in the automobile and construction sectors, among others.

In recent years, research on thermoplastic composites has widened to include specific mechanisms and modifications of mature material systems, such as carbon fiber-reinforced thermoplastic polymers and thermoplastic nanocomposites. Meanwhile, unsolved problems in aspects such as interfacial combination and processing technologies call for further research and well-designed thermoplastic composite systems.

This Special Issue is focused on design, processing, modification, and related properties for the application of advanced thermoplastic composites. It is my pleasure to invite you to submit original research papers, short communications, and state-of-the-art reviews for this Special Issue.

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Message from the Editor-in-Chief

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