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Mechanical Properties and Structures of High Performance Polymer Composites

Guest Editor:

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Message from the Guest Editor

Composites are defined as materials consisting of two or more chemically and physically distinct phases separated by an interface. The different materials are combined to provide a system with more useful structural or functional properties that cannot be achieved by any of the constituents alone.

At present, there is a growing interest in the introduction of high-performance reinforced polymer composite materials for structural applications in fundamental industrial sectors such as automotive, aerospace, robotics and medicine. The universal feature of the applications for these industrial sectors is the lightweight design approach, which is responsible for weight reduction while maintaining high mechanical structural performance.

In this Special Issue, we aim to publish full research papers, short communications, and review articles describing the relationship between structure and properties, as well as current trends and technologies for the synthesis, modification, and processing of high-performance polymer composites. The focus of the articles is on improving the properties (particularly the mechanical properties) of polymer composites.

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Message from the Editor-in-Chief

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