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Mechanical Behavior of Polymer Composite Materials

Guest Editors:

Dr. Zhongsen Zhang
School of Aerospace Engineering and Applied Mechanics, Tongji University, Shanghai 201804, China

Dr. Ning Liu
School of Aerospace Engineering and Applied Mechanics, Tongji University, Shanghai 201804, China

Prof. Dr. Bin Yang
School of Aerospace Engineering and Applied Mechanics, Tongji University, Shanghai 200092, China

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Message from the Guest Editors

Polymer composite materials have gained significant attention in various fields, including automotive, aerospace, biomedical, sports, and civil engineering. This Special Issue aims to gather original cutting-edge research and review papers that focus on the latest advancements in polymer composites, including (but not limited to) mathematical/physical modelling, computer simulation and experimentation, design and analysis of composite structures, novel experimental and manufacturing methods, and new applications of composites in advanced industries. The realm of polymer composites currently spans a wide array of synthetic and natural polymers serving as matrix materials, along with diverse organic and inorganic filler materials such as fibers and micro-/nano-particles. Mechanical analysis and failure assessment of composite structures rely on the understanding of the mechanical behavior of composite materials in terms of elastic–plastic response, damage mechanisms, and failure phenomena. Moreover, this Special Issue also focuses on the development of novel manufacturing techniques, as well as exploring new applications of composites in advanced industries.

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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