Special Issue

Advanced Polymer Composites in Aerospace Applications

Message from the Guest Editors

Polymer composites are increasingly used in aerospace applications due to their lightweight and high specific stiffness and strength properties. Many structural components in the aerospace industry are designed as thin-walled laminated structures, which allows them to be elastically folded into a small volume for easy transportation and deployed to construct large-scale structures for potential use. It is urgent to investigate and optimize the performance of composite deployable structures.

The aim of the Special Issue is to provide an opportunity to discuss recent progress in theoretical, computational, and experimental studies on the design and analysis of composite deployable structures. Both original research papers and review articles are welcome. The scope includes but is not limited to:

- Multiscale modelling of polymer composites.
- Synthesis and characterization of polymer composites for aerospace applications.
- Shape memory polymer composites and applications.
- Design and optimization of novel composite deployable structures.
- Deployment dynamics of space deployable structures.
- Failure and instability of thin-walled composite structures.

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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