



Advanced Polymer Composites and Applications

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Message from the Guest Editor

Dear Colleagues,

Nature offers the best example of composite systems with exceptional characteristics and a high-performance architecture. This Special Issue will provide researchers with the opportunity to highlight the importance of advanced composites as per the current requirements, their processing challenges, and possible contemporary and future applications. This Special Issue is not limited to synthetic or natural polymeric systems but also extended to green composite systems to meet the requirements of a sustainable and circular economy.

In particular, the topic of interest includes but is not limited to

- Polymer composites in electronic mobility
- Polymer composites in aviation and aerospace applications
- Multifunctional polymer composites in artificial intelligence
- Sustainable green composites
- Fire-retardant lightweight composites for battery applications
- Biomimicked polymers and their applications





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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