

Special Issue

Polymer Composites: Materials and Processes for Challenging Applications

Message from the Guest Editor

Even though there are a huge number of neat polymers available, composite materials have been developed and used to give desired functions with a relatively small amount of effort. We can expect a truly large number of functions by combining various candidate materials using different processes, and this is a great advantage of composites. On the other hand, currently, we are facing serious challenges such as climate crisis, plastic pollution, accumulated waste, a lack of enough resources, and medical issues. Thus, we are urgently looking for solutions to those by developing new materials and processes to give desired functions yet consuming fewer resources of materials and energy. This Special Issue is aimed to provide an up-to-date picture of recent advances in polymer composites, especially to deal with challenges that we are facing in the early 21st Century. **Keywords**

- biodegradable composites
- energy storage
- resistant to extreme conditions
- smart materials (shape changing, shape memory, self-healing)
- 3D printing
- biomedical materials
- conductive materials
- upcycling wastes

Guest Editor

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