



Application and Characterization of Polymer Composites

Guest Editor:

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Message from the Guest Editor

The application and characterization of polymer composites has witnessed significant growth and innovation in recent years. This multidisciplinary domain encompasses the design, fabrication, testing, and utilization of polymer composites across various industries, including the aerospace, automotive, construction, renewable energy, biomedical industries, among many others. Characterization plays a pivotal role in understanding and optimizing the performance of polymer composites. Advanced analytical techniques enable researchers to elucidate the structure–property relationships of composites. Polymer composites, consisting of a polymer matrix reinforced with fibers, particles, or additives, offer a diverse array of material structures (films, coatings, and hydrogels), making them suitable for a wide range of applications. Future research directions may include smart and multifunctional composites and novel applications in emerging technologies. This dynamic field offers exciting opportunities for researchers, educators, and industry professionals to shape the future of materials and technology.





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