

Special Issue

Advanced Polymer Composite Materials II

Message from the Guest Editors

A polymer composite is a material system composed of two or more macro/micro/nano constituents of different shapes, properties or chemical compositions, at least one of which is a polymer. The design of multifunctional and tunable polymer-based composite materials is an emerging area of research with a wide range of applications. Polymer composite materials can be classified according to matrix materials and reinforcement geometries. By optimizing molecular interfaces between different components, polymer-based composite materials can also encompass a range of functions, such as thermal stability at different temperatures, elasticity to support diverse structures, electrical sensitivity in variable sensors, and optical properties for advanced fiberglass technology. In this Issue, we will highlight the latest developments in these advanced polymer composite materials, including their design, synthesis, characterization, manufacturing, and modeling, as well as their various applications. Both research and review articles are welcome.

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