



Dispersion, Assembly and Crystallization of Functional Components within Polymer Materials

Guest Editor:

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Message from the Guest Editor

The addition and mixing of function ingredients have been commonly adopted as an approach to enhance the properties and performance of polymer materials. Nevertheless, for functional components, like 2D molecules, inorganic crystals, and carbon allotropes, the difficulties of uniform dispersion and guided organization within materials prevent them from the unique advantages. This challenge has unsolved for decades. The dispersion and crystal growth of functional inorganic component is likely to be largely modified by surrounding polymer matrix. Furthermore, upon the presence of disparate functional components, phase behaviors and habits of ordering organization of host polymers are to be modified in various aspects.

This special issue aims at enhancing the discussion and sharing of current progress, discovery, and analysis of various aspects of polymer hybrids. In addition to fundamental physics regarding the evolution of hybrid materials, involved changes and improvement of mechanical, optical, and electrical properties behind materials structures are also expected. Research articles, review articles, perspectives, as well as communications are also invited.





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