



Polymer Hybrids and Composites

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Message from the Guest Editor

Polymer-based multiphase materials combine properties of constituents depending on morphologies and interfacial bonding. Most efficient functional materials are two-phase because the individual properties are retained, whereas with a single phase or miscible composition, properties tend to be averaged. An example is the need for two phases to optimise strength and toughness. Natural materials have been used as models for synthetic compositions and innovations have evolved in materials selection, mixing and dispersion, morphology formation through processing and self-assembly, and physio-chemistry at interfaces and the surface. Synthetic materials simulating natural materials are called biomimetic materials. Salient to biomimetic materials are physical interactions or chemical bonding between the components. When like-polymers are combined they are called blends. When polymers are combined with other materials they are called composites, and when they are chemically bonded they form a new material called a hybrid.





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Message from the Editor-in-Chief

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