



Ionic Interfaces in Smart Polymer Materials

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Message from the Guest Editors

In recent years, the polymer materials community has put a great deal of effort into designing innovative polymer materials that are engineered to be multifunctional or task-specific, presenting enhancement in properties such as ionic conductivity, chemical and thermal stability, mechanical performance, fire retardancy, barrier properties, self-healing ability, and shape memory behavior. This can be effectively achieved by altering the interphase behavior of these polymer systems, both via chemical modification or incorporating additives/fillers such as block copolymers, ionomers, organic-inorganic hybrid materials, or inorganic-rich nano-objects. Among these, the application of (poly)ionic liquids, eutectic solvents, and eutectic molecular liquids have presented many new opportunities within the last decade, since small amounts of these compounds can impart dramatic interphase modifications to polymer materials due the production of vast physical interphase bonding, including the formation of ionic bonding.





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Message from the Editor-in-Chief

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