



Polymer-Based Flexible Materials

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Message from the Guest Editors

Compared to traditional flexible materials, such as metal-based, ceramic-based, and glass-based materials, polymer-based flexible materials show advantages including low density, easy processing, excellent flexibility, and good environmental stability. Over the past few decades, polymer-based flexible materials have received significant attention, due to the rapid development of electronic industry, medical treatment, health, and other fields. For instance, flexible electronic technology shows great potential in remoulding the lifestyles of human beings, but the bottleneck of flexible electronic technology is flexible substrates or flexible conductive materials, which can be solved by modifying or doping polymer-based flexible materials. Moreover, it is possible to synthesize new polymer-based flexible materials or modify them for different purposes to endow them with corresponding functionality.

Fields that will be covered include, but are not limited to: synthesis (organic elastomers, conductive polymers, and flexible organic networks); structural characterization; modelling; and applications (sensor, energy harvesting and storage, electromagnetic shielding, and biomedical).





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