



Smart and Functional Elastomers, Hydrogels, and Ionogels

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Message from the Guest Editor

This Special Issue focus on the current state-of-the-art of the fundamentals and applications of elastomers, hydrogels, and ionogels. These polymeric materials, either in dried or in swollen states, exhibit soft and resilient mechanical properties, often with great fracture toughness. Incorporation of functional groups or nanoparticles adds novel functionality or stimuli-responsiveness on top of their their unique mechanical properties, enabling a broad range of potential applications such as flexible or stretchable energy storage, biosensors and biomaterials, soft electronics, and many more.

Papers are sought that discuss the latest research in the area or summarize selected areas of the field. The scope of the Special Issue encompasses the synthesis, characterization, and application of elastomers and gels made of conjugated polymers, organic radical polymers, ion-conducting polymers, metal-containing polymers, or hybrid inorganic/organic motifs.





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Message from the Editor-in-Chief

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