“Making responsive hydrogels from synthetic block copolymers”
Making responsive hydrogels from synthetic block copolymers

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Abstract

Soft materials that can respond to different stimuli are of interest in a range of applications. We have investigated the preparation of block copolymers that are capable of forming hydrogels that respond to temperature, magnetic fields, or pH. Aspects of the synthesis of these polymers by controlled radical and organocatalytic polymerization and the properties of the resulting hydrogels will be discussed.