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The assembling process in the resulting copolymers is based on crosslinking through the reversible quadruple hydrogen bonding between side chain UPy modules. The adamantyl substituent was introduced in order to create a " hydrophobic pocket " that may protect the hydrogen bonds against the disruptive effect of water molecules.

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However, to increase further and, in parallel, to minimize the hydrogen affinity, we had to modify the hydrogen bonded structure by embedding motifs that exhibit low G H into the polymers backbone. Using density functional theory, we identify keto indoleamine hydrogen bonds as favorable to drive the reaction.

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Hydrogen bonding responsible for self-healing properties into supramolecular polymers: a two phenyl urazole acids; b thymine/2,6-diamino-pyridine (THY/DAP); c thymine/diamino triazine (THY/DAT); d self-complementary UPy quadruple hydrogen bonding unit (dimerization constant of K dim = 10⁴ - 7 × 10⁴ M⁻¹ and a lifetime of 0.1–1 s); e 2-amino-3H-pyrido-(2,3-d)pyrimidin-4-one; f UPy and 2,7-diamido-1,8-naphthyridine (DAN) (UPy-DAN); g 2,7-diamido-1,8-naphthyridine (DAN) and ureido-7 ...

Advances in self-healing supramolecular soft materials and ...
Hydrogen bonds in polymers Hydrogen bonding plays an important role in determining the three-dimensional structures and the properties adopted by many synthetic and natural proteins. Compared to the C-C, C-O, and C-N bonds that comprise most polymers, hydrogen bonds are far weaker, perhaps 5%.

Hydrogen bond - Wikipedia
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Hydrogen Bonded Polymers Advances In Polymer Science
Combining supramolecular principles with block copolymer self-assembly offers unique possibilities to create materials with responsive and/or tunable properties. The present chapter focuses on supramolecular materials based on hydrogen bonding and (block co-) polymers. Several cases will be discussed where these self-assembled nanostructured morphology can be easily tuned using composition as the natural variable. A large body of the material reviewed concerns hydrogen-bonded side-chain (block co-

Supramolecular Materials Based On Hydrogen-Bonded Polymers ...
This review introduces recent advances in the development of hydrogen bonding modules that can be useful for creating a variety of supramolecular polymers. Furthermore, we present selected examples of hydrogen bonded supramolecular polymers from the literature, by dividing them into three categories: supramolecular polymers assembled from small molecules, and main chain and side chain supramolecular polymers.

Hydrogen Bonding Modules for Use in Supramolecular Polymers
In particular, tailoring the positioning and strength of intermolecular forces within macromolecules by synthetic means and thus gaining structural control over the final polymeric materials has become feasible, resulting in the field of supramolecular polymer science. - sides other intermolecular forces, hydrogen bonds are unique intermolecular forces enabling the tuning of material properties via ...