Peptide Hybrid Polymers / Springer, 2006 / Harm-Anton Klok, Helmut Schlaad / 9783540325680 / 160 pages / 2006

Polymer-peptide hybrid architectures have recently gained much interest in. materials science. The ability to combine the structural and functional conÂ Preparation of Bio-Inspired Hybrid Polymers 21. Peptide-polymer hybrid materials can also be used to more efï¬ciently. prepare (biologically) active coatings. When an active peptide or protein is in Clicked peptide polymers are poly-triazole-poly-peptide hybrid polymers. They are made of repeating units of a 1,2,3-triazole and an oligopeptide. They can be visualized as an oligopeptide that is flanked at both the C-terminus and N-terminus by a triazole molecule. Clicked peptide polymers are prepared by the azide-alkyne Huisgen cycloaddition also called the click reaction; which is commonly used in bioconjugation reactions to link molecules together with a stable triazole bridge. Peptide based Peptide Hybrid Polymers (has been added to your Cart. Add to Cart. Buy Now.Â "The editors and authors provide an overview of the state-of-the-art in a burgeoning area that merges the controlled â€¦ activity of one of Natureâ€™s main class of polymersâ€“proteins and peptidesâ€“with the more traditional chemistry of synthetic polymers. â€¦ this volume nicely introduces the researcher and student to the area of peptide polymer hybrids and outlines the areas of synthesis. Of particular interest are peptide hybrid polymers. Combining peptide and synthetic polymer segments into a single macromolecule offers interesting possibilities to synergize the properties of the individual components and to compatibilize bio- and synthetic systems. This volume of Advances in Polymer Science is an attempt to provide an overview of the state of the art in the area of peptide hybrid polymers. The ï¬ve articles in this volume cover a broad range of topics, from chemical and biological synthesis, to solution and solid-state self-assembly, to medical applications.