

macromolecular engineering precise synthesis pdf

This article aims at updating the recent progresses in the synthesis of catechol-functionalized polymers by systematically reviewing the different synthetic strategies to incorporate the catechol functionalities into (bio) macromolecules.

Recent advances in the synthesis of catechol-derived (bio

The Department of Biomedical Engineering was established in 1968 at Case Western Reserve University, founded on the premise that engineering principles provide an important basis for innovative and unique solutions to a wide range of biomedical and clinical challenges.

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Krishnendu Saha received his B.Sc. in Chemistry from Jadavpur University, India in 2006 and M.Sc. in Chemistry from Indian Institute of Technology-Madras, India in 2008. He is currently pursuing his Ph.D. at the Department of Chemistry, University of Massachusetts at Amherst, U.S.A. under the ...

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Chemistry of Materials (ACS Publications)

Epoxy resins (EPs), as a class of thermosets, are known as all-powerful adhesives due to their strong mechanical properties, low shrinkage, low density, outstanding adhesion, excellent versatility, excellent weather and chemical resistance, and high thermal stability, and therefore EPs have a broad range of applications .These include applications as electrical insulating materials, coatings ...

Synthesis and application of epoxy-ended hyperbranched

There are three main classes of biopolymers: polysaccharides, polypeptides, and polynucleotides. In living cells, they may be synthesized by enzyme-mediated processes, such as the formation of DNA catalyzed by DNA polymerase. The synthesis of proteins involves multiple enzyme-mediated processes to transcribe genetic information from the DNA to RNA and subsequently translate that information to ...

Polymer - Wikipedia

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Polymeric Scaffolds in Tissue Engineering Application: A

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Gene expression - Wikipedia

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Membrane-translocating peptides and toxins: from nature to

Abstract. Nanomaterials offer new opportunities for cancer diagnosis and treatment. Multifunctional nanoparticles harboring various functions including targeting, imaging, therapy, and etc have been intensively studied aiming to overcome limitations associated with conventional cancer diagnosis and therapy.

Targeting Strategies for Multifunctional Nanoparticles in

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