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Molecular Self Assembly Organic Versus

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Self-assembly is undoubtedly a topic of special interest in current chemistry and is related to very wide scientific areas. Recent progress in this field seems to be featured by the construction of well-defined discrete systems exploiting complementary hydrogen bonding as well as coordination ...
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Molecular Self-Assembly Organic Versus Inorganic ...

Molecular Self-Assembly Organic Versus Inorganic Approaches Volume Editor: M. Fujita With contributions by I. Bernt, H. Bögge, A.J. Carr, P.S. Corbin,

Molecular Self-Assembly Organic Versus Inorganic Approaches

Molecular self-assembly is the spontaneous arrangement of molecules into well-defined nanostructures that are stabilized by noncovalent interactions. 179 In nature, DNA alpha helixes and protein crystal structures are just some examples. For instance, type I collagen forms fibrils with diameters on the order of 5-500 nm. 180,181 Organic compounds, such as block copolymers, will also self ...

Molecular Self-Assembly - an overview | ScienceDirect Topics

This is why organic molecules have become the standard for molecular self-assembly experiments. Of special interest are biomolecules such as amino acids and DNA bases, the latter are very attractive for molecular self-assembly due to their ability to selectively form hydrogen bonds with well-controlled direction, which is defined by the molecular structure [27 •] .

Self-assembly of organic molecules at metal surfaces ...

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Formation of Interesting Organic Supramolecular Structures in the Solid-State Self-Assembly of Triphenol Adducts. *Crystal Growth & Design* 2006, 6 (1) , 150-160. DOI: 10.1021/cg050251p. Akhila Jayaraman,, Venkataramanan Balasubramaniam, and, Suresh Valiyaveetil.

Discrete versus Infinite Molecular Self-Assembly: Control ...

Molecular self-assembly is the process by which molecules adopt a defined arrangement without guidance or management from an outside source. There are two types of self-assembly. These are intramolecular self-assembly and intermolecular self-assembly. Commonly, the term molecular self-assembly refers to intermolecular self-assembly, while the intramolecular analog is more commonly called folding

Molecular self-assembly - Wikipedia

Self-assembly is a process in which a disordered system of pre-existing components forms an organized structure or pattern as a consequence of specific, local interactions among the components themselves, without external direction. When the constitutive components are molecules, the process is termed molecular self-assembly.

Self-assembly - Wikipedia

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Molecular self-assembly : organic versus inorganic ...

Molecular self-assembly, a phenomenon widely observed in nature, has been exploited through organic molecules, proteins, DNA, and peptides to study complex biological systems. These self-assembly systems may also be used in understanding the molecular and structural biology which can inspire the design and synthesis of increasingly complex ...

Self-assembly of a nine-residue amyloid-forming peptide ...

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