
Hierarchical Macromolecular Structures 60 Years After The Staudinger Nobel Prize I Advances In Polymer Science

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Hierarchical Macromolecular Structures: 60 Years after the Staudinger Nobel Prize II Advances in Polymer Science enjoys a longstand-ing tradition and good reputation in its communi-ty Each volume is dedicated to a current topic and each review critically surveys one aspect of that topic, to place it within the context of the volume

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From the first review published

Manfred Wilhelm, Manfred.Wilhelm@kit

Macromolecular Chemistry Foundation of the Institute for Polymer Chemistry 2004 Fusion: Institute Analysis of crystals and molecular structures of natural polymers for a better usage in the Percec, V (ed), Hierarchical Macromolecular Structures: 60 Years after the Staudinger Nobel Prize I, Springer, Cham/Heidelberg/New York, 2013

The Legacy of Hermann Staudinger: Covalently Linked ...

mann Staudinger "for his discoveries in the field of macromolecular chemistry" In the same year, Watson and Crick published their famous Nature paper¹¹ demonstrating the double helix of the natural macromolecule DNA and suggested its biological significance, and Paul J Flory published the classic textbook Principles of Polymer

'Warmherzig, aber nicht chtern und klar': Interview mit ...

Hierarchical Macromolecular Structures: 60 Years after the Staudinger Nobel Prize [Hrsg: V Percec], Teil I und II, Springer, Berlin-Heidelberg, 2013 Life and work of Hermann Staudinger, von Markus Weber und Guido Deussing, Website K-online, t1pde/e661 Die im Interview von Helmut Ringsdorf erwähnten Staudinger-Arbeiten, welche

Structure, Vol. 13, 473-482, March, 2005, ©2005 Elsevier ...

2003) Most macromolecular structures are determined cessfully augment an already complex software pack-by crystallography, so this type of large molecular as- age, we have favored simple code, reliable algorithms, sembly is common and speed Our aim is to develop the breadth of capa-

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arXiv:1802.04087v1 [q-bio.QM] 12 Feb 2018

studying the structures of macromolecular complexes in situ [6] Indeed, recent advances [12,15,13,18] in CECT have enabled 3D visualization of subcellular structures at subnanometer resolution within cells preserved in a near-native state Such an approach thereby captures the ...

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Polyolefins: 50 Years after Ziegler and Natta II - Polyolefin Nanocomposites and Hybrid Catalysts Advances in Polymer Science, 258, 279-309 (2013) DOI: 101007/12_2013_219 51 SURESH, K I BARTSCH, E Effect of seed characteristics on morphology development in poly(n-butyl acrylate)-poly(n-butyl methacrylate) core-shell dispersions

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macromolecular structures can be recovered through subtomogram averaging based on alignment. Second, the spatial distribution of a certain structure can be detected through alignment. To recover the structure, subtomograms containing the same macromolecular structure but in different poses must be iteratively aligned and averaged. Subtomogram

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CHOMP (Combinatorial Hierarchical Optimization for Macro-molecular Problems) is a software library directed toward optimizing macromolecular structure. It provides data representations for atoms, amino acids, and sidechain rotamers, with pending support for nucleic acids and small molecules. CHOMP also

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3 Database of macromolecular structures 31 Selection of entries All protein entries from the PDB with a length greater than 15 amino-acid residues that had been solved using MX and had been refined against data higher than 35 Å resolution were selected to build the current database. A basic entry in the database was a macromolecular subunit.

Construction

Structures of various shapes and functions found in nature are compelling for their beauty and diversity, as well as inspiring for the design of new architectures. In proteins – the principal machinery of life – structure, and thus function, is generated using a hierarchical construction plan. At the primary

30+ Control Of Macromolecular Synthesis A Study Of Dna Rna ...

the mechanism of 4cd for the structural control of hb pmma synthesis comes from the hierarchical reactivity of the C-Te bond of 4cd which serves as the branching point only after 4cd reacts and is Macromolecular Synthesis A Periodic Publication Of while the synthesis of bcps is an established field with many major advances over the last