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* Corresponding authors a State Key
Laboratory of Polymer Physics and
Chemistry, Changchun Institute of
Applied Chemistry, Chinese Academy of
Sciences, Changchun, PR China E-mail:
ybhuang@ciac.ac.cn b Department of
Chemistry, University of Southern
California, Los Angeles, California 90089,
USA

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Indeed, the convergence of synthetic organic and polymer chemistries is a great impetus for the advancement of polymer synthesis [87].

~~Sequence-controlled polymers :
synthesis, self-assembly ...~~

Determination of the monomer sequence in the gas phase. These peaks were isotopically resolved and in good agreement with their calculated isotope distributions (Supplementary Tables 1 - 5). Therefore, the constitutional repeating structure 1-2-3 of the supramolecular polymer was confirmed in the gas phase.

~~Sequence control in polymer synthesis—
diyhp~~

Sequence-Controlled Polymers: Synthesis, Self-Assembly, and Properties is dedicated to the emerging field of sequence-controlled polymers. The objectives of this new research discipline include the synthesis, characterization, and exploitation of synthetic

Read Online Sequence Controlled Polymers Synthesis Self Assembly And Properties macromolecules containing ordered sequences of comonomers.

~~Precision Sequence Control in Bioinspired Peptoid Polymers~~

Step-growth. A condensation polymer is defined as a polymer that involves loss of small molecules during its synthesis, or contains heteroatoms as part of its backbone chain, or its repeat unit does not contain all the atoms present in the hypothetical monomer to which it can be degraded.

~~Triazine-Based Sequence-Defined Polymers with Side Chain ...~~

Sequence-Controlled Copolymers: Synthesis, Characterization and Applications Little is known about the effect of conjugated copolymer sequence on the physical, optical and electronic properties because these materials have largely been synthetically inaccessible.

~~ACS Symposium Series (ACS~~

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Fig 1. Synthetic rationale of sequence-controlled polymers. A and B shown here are two self-reacting monomers and one of which is pre-protected and can get deprotected thereafter to trigger the next addition. Based on selective AB reaction, the monomers can be added to the polymer chain in an ordered manner.

~~Sequence Control in Polymer Chemistry through the ...~~

The present volume of the ACS Symposium series is dedicated to the emerging field of sequence-controlled polymers. The objectives of this new research discipline include the synthesis, characterization, and exploitation of synthetic macromolecules containing ordered sequences of comonomers.

~~Sequence Controlled Polymers Synthesis Self~~

sequence-controlled polymer synthesis has recently become a distinct discipline

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involving a fast-growing community of scientists. In this context, the objective of this first introduction chapter is to describe the rise and the development of this field of research. Recent progress, current limitations, and future challenges are discussed in this chapter.

Introduction

~~Sequence-controlled supramolecular terpolymerization ...~~

Abstract. Sequence control in synthetic polymers has gained renewed interest, 1 because sequence leads to structure and function. Sequence-controlled polymers have repeated sequence motifs (e.g., (ABC) n) whereas sequence-defined polymers have monomers in any predetermined order (e.g. ABCADC).

~~Amazon.com: Sequence Controlled Polymers: Synthesis, Self ...~~

Moreover, monomer sequence regulation in classical polymerization techniques such as step-growth

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polymerization, living ionic polymerizations and controlled radical polymerizations are explained, before concluding with a look at the future for sequence-controlled polymers.

~~Sequence-Controlled Polymers: Synthesis, Self-Assembly ...~~

The behavior of polymers in solution, particularly in water, is also strongly dependent on monomer sequences. Thus, sequence regulation may enable a more effective control of structure-property relations in tomorrow's polymer materials. Nature has achieved exquisite sequence control in the synthesis of polymers like DNA.

~~Sequence-controlled polymer—Wikipedia~~
“Click” to fold: CuI-catalyzed azide-alkyne cycloaddition polymerization of a peptide monomer induced folding of the resultant polymer into well-defined β sheets, which further self-assemble into hierarchical nanofibrils. The antiparallel β -sheet

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structure was confirmed by several techniques.

~~Sequence Controlled Polymers | Science~~
Sequence-Controlled Polymers:
Synthesis, Self-Assembly and Properties
Taking biologically and nature-inspired
systems towards chemical synthetic
equivalent in macromolecular science is
always a great challenge.

~~Sequence Controlled Polymers | Polymer~~
Synthesis | Polymer ...

In Sequence-Controlled Polymers:
Synthesis, Self-Assembly, and
Properties; Lutz, et al.; ACS Symposium
Series; American Chemical Society:
Washington, DC, 2014. QDQRVKHHWV
0RUHRYHU LQWKHWZRIROG 1DH 1SH
DQG 1FH 1SH VKHHW IRUPLQJ V\VVHP
WKHSRODUDQGDSRODUUHVLGXHVZHU
HV\VVHPDWLFD00\VXEVWLWXWHGE\D
QHxWUDO

~~Cycloaddition Promoted Self-Assembly of~~
a Polymer into ...

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In late 2003, he moved to Potsdam in Germany and became team leader at the Fraunhofer Institute for Applied Polymer research. His current research interests include the synthesis of sequence-ordered polymers, the design of smart biocompatible polymers and the self-organization of macromolecules in aqueous media.

~~Synthesis and sequence-controlled self-assembly of ...~~

Sequence-Controlled Polymers: Synthesis, Self-Assembly, and Properties will be of interest to a broad readership, as it is the first book to explore the important topic of sequence-controlled polymers. Based on its recent academic impact, it is reasonable to expect that this field of research will continue to grow in the next decades.

~~Sequence-Controlled Polymers—Jean-Francois Lutz; Tara Y ...~~

Synthesis of Sequence-Controlled Copolymers Using Time-Regulated

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Additions of N-Substituted Maleimides in
Styrenic Radical Polymerizations.

Nathalie Baradel; Olga Shishkan;
Sansanee Srichan; Jean-François Lutz

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Ze Zhang, Yezi You and Chunyan Hong,
Multicomponent Reactions and
Multicomponent Cascade Reactions for
the Synthesis of Sequence-Controlled
Polymers, Macromolecular Rapid
Communications, 39, 23, (2018).

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Moreover, monomer sequence
regulation in classical polymerization
techniques such as step-growth
polymerization, living ionic
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polymerizations are explained, before
concluding with a look at the future for
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