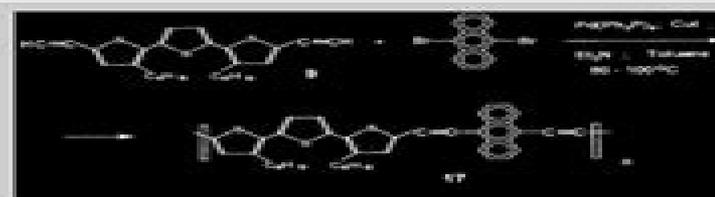


Full Paper: A series of new regioregular poly(arylene ethynylene)s were prepared by Pd-catalyzed condensation of 3-hexyl multisubstituted oligothiophene derivatives with either benzene or anthracene compounds. The NMR characterization of the starting materials and model compounds lead to a thorough investigation of the corresponding macromolecules. Both small and large molecules were characterized by optical methods. The former, particularly when containing anthracene moieties, display noticeable photoluminescence quantum yields. In the polymers, the photoluminescence quantum yield is lower than that of the starting materials when anthracene is present, while the polymers containing benzene show higher quantum yields.



Synthesis and Characterization of New Poly(arylene ethynylene)s Based on 3-Hexyl Multisubstituted Oligothiophene Blocks

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Introduction

Polymers consisting of regular sequences of arylene blocks with hetero residues have raised interest as electroluminescent layers in large-area light-emitting diodes (LED). Processable soluble conjugated polymers, such as poly[2,5-dialkoxy(phenylene vinylene)]s,^[1] poly[dibutylterthiophene(phenylene vinylene)]s,^[2] poly[dihexylterthiophene(phenylene azomethyne)]s,^[3] and poly[2,5-dialkoxy(*p*-phenylene ethynylene)]s,^[4] have recently been presented as emissive materials in the visible region for the preparation of LEDs.

The optical properties depend both on the nature of the arylene moiety – the best photoluminescence results are obtained using phenylene residues – and on the length of the arylene block between hetero-connections (—C≡C—, —C=N—, —C=C—). These factors together with the use of proper substituents allow the tuning of different colors in LED devices.

On the other hand, poly(thiophene ethynylene)-type polymers, having structures similar to those of poly(thiophene vinylene)s, have not been extensively studied. Very few works regarding the synthesis of polymers con-

stituted of alternating thiophene and acetylene moieties appeared.^[5] Sequences of 3-hexylthiophene acetylene and phenylene acetylene groups have been reported earlier by different authors.^[6] These polymers exhibited blue-light emission, the intensity of which being a function of the tactic character of the polymers due to a possible connection of the monomers either “head-to-head” or “head-to-tail”. In fact, Li and Pang observed different values of the photoluminescence quantum yield (PL QY), both in solution and in thin films for both poly(3-hexylthiophene ethynylene)^[7] and poly[(*p*-phenylene ethynylene)-*alt*-(3-hexylthiophene ethynylene)]^[8–11] although to a smaller extent as compared to poly(3-alkylthiophene)s.^[12]

Here, we report both on the synthesis of some dibromides and acetylene compounds of dihexylterthiophene and tetrahexylsexithiophene and on their Heck coupling in order to synthesize regularly alternating sequences of acetylene, phenylacetylene, anthracene units and hexyl-substituted oligothiophenes with three and six thiophene rings. We investigated the effect of the insertion of an anthracene moiety into thiophene-based polymers because of its luminescence properties.

Polyarylene Ethynylenes From Synthesis To Application

Xiaoyong Zhao



Polyarylene Ethynylenes From Synthesis To Application:

Poly(arylene Ethynylene)s Christoph Weder,2005 Poly(arylene ethynylene)s Christoph Weder,2005-05-18 1 U H F
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Weder Electronic Properties of PAEs **The Design and Synthesis of Benzodithiophene-containing Poly(arylene
Ethynylene)s** Kathleen Rose White,2018 In Chapter 1 we provide an overview of the properties and applications of
conjugated polymers with a particular focus on poly arylene ethynylene s We discuss the synthesis and photophysical
properties of poly arylene ethynylene s as well as their behavior in the solid state and at the air water interface We also
provide a brief overview of the synthesis and properties of conjugated polymer networks and nanoparticles of poly arylene
ethynylene s Finally we discuss the synthesis of benzodithiophene and benzodithiophene containing conjugated polymers and
poly arylene ethynylene s In Chapter 2 we describe the design and synthesis of amphiphilic benzodithiophene containing poly
arylene ethynylene s for the synthesis of 2D conjugated 2D polymers We explore the behavior of the 1D conjugated linear
polymers at the air water interface of a Langmuir Blodgett trough and describe our synthetic efforts toward the cross
polymerization of these polymers into 2D conjugated 2D polymers In Chapter 3 we explore the synthesis of conjugated
polymer networks of benzodithiophene containing poly arylene ethynylene s via the electrochemical and chemical
crosslinking of two different 1 D conjugated precursor polymers We describe the characterization of the conjugated polymer
network thin films and bulk materials and discuss the differences in the material properties depending on the starting
polymer In Chapter 4 we describe the synthesis and characterization of a series of benzodithiophene containing poly arylene
ethynylene s and poly arylene butadiynylene s for magneto optical applications Conjugated Polyelectrolytes Bin
Liu,Guillermo C. Bazan,2013-08-07 This is the first monograph to specifically focus on fundamentals and applications of
polyelectrolytes a class of molecules that gained substantial interest due to their unique combination of properties Combining
both features of organic semiconductors and polyelectrolytes they offer a broad field for fundamental research as well as
applications to analytical chemistry optical imaging and opto electronic devices The initial chapters introduce readers to the
synthesis optical and electrical properties of various conjugated polyelectrolytes This is followed by chapters on the
applications of these materials in optical sensing and imaging with emphasis on biological systems while the final section
addresses the emerging applications of conjugated polyelectrolytes in optoelectronic devices concluding with an in depth
discussion of structure property relationship The editors and contributors are all pioneers and experts in this expanding field
This monograph is not only for chemists materials scientists and physicists but also a unique source of knowledge for readers
with scientific background interested in polyelectrolytes **Handbook of Metathesis: Applications in polymer**

synthesis Robert H. Grubbs, 2003 *Conjugated Polymers for Organic Electronics* Andrew Grimsdale, Paul Dastoor, 2024-04-04 Focusing on how conjugated polymers can be designed and made for use in efficient organic electronic devices this book covers the tools for future development of more environmentally and economically friendly devices Including examples of interdisciplinary science it exemplifies how chemists and physicists work together to enable the design and synthesis of high performance material in devices allowing polymer based electronic devices to become viable commercial products It provides the main classes of conjugated polymers and their applications in organic electronic devices such as transistors light emitting diodes and solar cells making this a comprehensive introduction This complete guide includes the methods for making conjugated polymers the properties and specific structures that make them suitable for use and how their synthesis can be optimised to improve device performance Written by experts in the field this is the ideal guide for researchers and practitioners across materials science physics chemistry and electrical engineering

Organic Light-Emitting Materials and Devices Zhigang Rick Li, 2017-12-19 *Organic Light Emitting Materials and Devices* provides a single source of information covering all aspects of OLEDs including the systematic investigation of organic light emitting materials device physics and engineering and manufacturing and performance measurement techniques This Second Edition is a compilation of the advances made in recent years and of the challenges facing the future development of OLED technology Featuring chapters authored by internationally recognized academic and industrial experts this authoritative text Introduces the history fundamental physics and potential applications of OLEDs Reviews the synthesis properties and device performance of electroluminescent materials used in OLEDs Reflects the current state of molecular design exemplifying more than 600 light emitting polymers and highlighting the most efficient materials and devices Explores small molecules based OLEDs detailing hole and electron injection and electron transport materials electron and hole blocking materials sensitizers and fluorescent and phosphorescent light emitting materials Describes solution processable phosphorescent polymer LEDs energy transfer processes polarized OLEDs anode materials and vapor deposition manufacturing techniques employed in OLED fabrication Discusses flexible display the backplane circuit technology for organic light emitting displays and the latest microstructural characterization and performance measurement techniques Contains abundant diagrams device configurations and molecular structures clearly illustrating the presented ideas *Organic Light Emitting Materials and Devices* Second Edition offers a comprehensive overview of the OLED field and can serve as a primary reference for those needing additional information in any particular subarea of organic electroluminescence This book should attract the attention of materials scientists synthetic chemists solid state physicists and electronic device engineers as well as industrial managers and patent lawyers engaged in OLED related business areas

Polymeric Materials Encyclopedia, Twelve Volume Set Joseph C. Salamone, 1996-07-23 *The Polymeric Materials Encyclopedia* presents state of the art research and development on the synthesis properties and applications of polymeric materials This groundbreaking work includes the

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Synthetic Methods in Step-Growth Polymers Martin E. Rogers, Timothy E. Long, 2003-05 Table of contents

Papers Presented at the ... Meeting American Chemical Society, Division of Polymer Chemistry, 1998 *Concise Polymeric Materials Encyclopedia* Joseph C. Salamone, 1998-08-28 *Concise Polymeric Materials Encyclopedia* culls the most used widely applicable articles from the *Polymeric Materials Encyclopedia* more than 1 100 and presents them to you in a condensed well ordered format. Featuring contributions from more than 1 800 scientists from all over the world, the book discusses a vast array of subjects related to the synthesis, properties, and applications of polymeric materials, development of modern catalysts in preparing new or modified polymers, modification of existing polymers by chemical and physical processes, biologically oriented polymers. This comprehensive, easy to use resource on modern polymeric materials serves as an invaluable addition to reference collections in the polymer field. *Dissertation Abstracts International*, 2009

Macromolecular Engineering, Volume 1 Krzysztof Matyjaszewski, Yves Gnanou, Ludwik Leibler, 2007-04-09 The book provides a state of the art description of the synthetic tools to precisely control various aspects of macromolecular structure including chain composition, microstructure, functionality, and topology, as well as modern characterization techniques at molecular and macroscopic level for various properties of well defined copolymers in solution, bulk, and at surfaces. The book addresses also the correlation of molecular structure with macroscopic properties, additionally affected by processing. Finally, some emerging applications for the copolymers are highlighted. Conjugated Polyelectrolytes Based on Poly(arylene Ethynylene) Xiaoyong Zhao, 2007 ABSTRACT In this dissertation we present the research that was focused on the design, synthesis, and photophysical properties of conjugated polyelectrolytes (CPEs) based on poly(arylene ethynylene) (PAE). Applications of these materials for anion sensing and dye sensitized solar cell (DSSCs) were also explored. First, a meta-linked poly(phenylene ethynylene) featuring chiral anionic groups was designed and synthesized. Because of the presence of chiral side chains, the conjugated backbone of this polymer folds preferentially into a left-handed helix in water, as proven by absorption, fluorescence, and circular dichroism spectroscopy. Similar to the helix formed by double-strand DNA, the helical conformation of the synthetic polymer interacts with a metallointercalator, Ru(bpy)₂dppz²⁺, and turns on the emission from the complex. Cationic cyanine dyes can also bind to the helical conformation of the polymer in a groove-binding manner. A

chiral and optically active aggregate of cyanine dyes is formed by transferring the chirality of the polymer template. Second, we have systematically investigated the photophysical properties of para-linked poly(phenylene ethynylene)s (PPEs). These CPEs are shown to undergo a solvent-driven process.

Linear and Nonlinear Optics of Organic Materials, 2001 **The British National Bibliography** Arthur James Wells, 2005 Journal American Chemical Society, 2002 Comprehensive Organometallic Chemistry III Robert H. Crabtree, 2007. Volume 1 reviews the preparations, properties, structure, bonding, and applications of organometallic compounds of Alkali metal, Alkaline earth, Copper, Silver, Zinc, Mercury, and Cadmium. It provides a clear and comprehensive overview of developments since 1993 and attempts to predict trends in the field over the next ten years. Like its predecessors COMC 1982 and COMC II 1995, this new work is the essential reference text for any chemist or technologist who needs to use or apply organometallic compounds. Valuable content available May 2009 as an individual volume. Separate volumes will appeal to a wider chemistry and materials science audience, priced for individual researcher as well as library purchase.

Encyclopedia of Polymer Science and Technology, Part 1 Herman F. Mark, 2003. This completely new Third Edition of the Mark Encyclopedia of Polymer Science and Technology brings the state of the art to the 21st century with coverage of nanotechnology, new imaging and analytical techniques, new methods of controlled polymer architecture, biomimetics, and more. Whereas earlier editions published one volume at a time, the third edition is being published in 3 Parts of 4 volumes each. Each of these 4 volume Parts is an A-Z selection of the latest in polymer science and technology as published in the updated online edition of the Mark Encyclopedia of Polymer Science and Technology available at www.mrw.interscience.wiley.com/epst. Order the 12 volume set ISBN 0471275077 now for the best value and receive each of the 4 volume Parts as they publish. The complete list of titles to appear in Part 1 of this new third print edition can be viewed at www.mrw.interscience.wiley.com/epst and clicking on What's New. Check this website often as new articles are added periodically.

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