

## **Stereospecific Olefin Polymerization Catalyzed By**

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### **Theoretical Insights into Olefin Polymerization Catalyzed ...**

The Ziegler-Natta (ZN) catalyst, named after two chemists: Karl Ziegler and Giulio Natta, is a powerful tool to polymerize  $\alpha$ -olefins with high linearity and stereoselectivity (Figure 1). A typical ZN catalyst system usually contains two parts: a transition metal (Group IV metals, like Ti, Zr, Hf) compound and an organoaluminum compound (co-catalyst).

### **Stereospecific Ring-Opening Metathesis Polymerization ...**

The discovery of metal catalysts for the stereospecific polymerization of olefins has led to the exploration of a wide range of catalyst mixtures which have resulted in highly efficient, stereospecific catalysts for the polymerization of  $\alpha$ -olefins. 1 However, some of these catalyst mixtures gave unexpected products. 2 Banks and Bailey reported in 1964 that catalysts closely related to polymerization systems 3 produced both higher and lower molecular weight homologs from simple olefins. 4 ...

### **On the Initiation Mechanism of Syndiospecific Styrene ...**

@article{Autenrieth2015StereospecificRM, title={Stereospecific Ring-Opening Metathesis Polymerization (ROMP) of endo-Dicyclopentadiene by Molybdenum and Tungsten Catalysts}, author={Benjamin Autenrieth and Hyangsoo Jeong and William P. Forrest and Jonathan C Axtell and Antje Ota and Thomas Lehr and M. Buchmeiser and R. Schrock}, journal ...

### **Stereospecific Polymerization - an overview ...**

Tomoyuki Toda, Norio Nakata, Tsukasa Matsuo, Akihiko Ishii, Extremely active  $\alpha$ -olefin polymerization and copolymerization with ethylene catalyzed by a dMAO-activated zirconium( iv ) dichloro complex having an [OSSO]-type ligand , RSC

Adv., 10.1039/C5RA20846G, 5, 108, (88826-88831), (2015).

## **Stereospecific Olefin Polymerization Catalyzed by ...**

The present heteroatom-promoted polymerization of  $\alpha$ -olefins catalyzed by the rare-earth catalysts stands in sharp contrast with the group 4 metal-catalyzed polymerization of ether-containing...

## **Stereoselectivity Inversion: Isospecific Propylene ...**

A non-coordinating anion, preferably containing a sterically shielded diboron hydride, if combined with a cyclopenta-dienyl-substituted metallocene cation component, such as a zirconocene metallocene, is a useful olefin polymerization catalyst component.

## **Stereospecific Olefin Polymerization Catalyzed By**

The structural study of supported Ziegler-Natta catalysts for the polymerization of olefin (S. Xiao et al.). A novel multifunctional catalytic route for branched polyethylene synthesis (Yu.V. Kissin, D.L. Beach). The stereospecific polymerization of  $\alpha$ -olefins: recent developments and unsolved problems (P. Pinot et al.). Index.

## **Chiral Fluorous Dialkoxy-Diamino Zirconium Complexes ...**

Stereospecific Catalytic Polymerization of  $\alpha$ -Olefins.  $\alpha$ -olefins are often polymerized in the presence of stereospecific catalysts such as metallocenes or Ziegler-Natta catalysts. 1 These catalysts are able to restrict the addition of monomer molecules to a specific regular orientation. In the case of isotactic orientation, all alkyl groups are positioned at the same side of the molecule with respect to the polymer backbone, and in the case of syndiotactic orientation the position of the ...

## **Stereospecific olefin polymerization catalysts(Patent ...**

Considering that heteroatom-functionalized polyolefins are novel and highly desired materials for completely new areas of applications , , , , , , the related theoretical studies on heteroatom-containing olefin polymerization and copolymerization catalyzed by cationic rare-earth metal complexes are also reviewed in this chapter. On the basis of the aforementioned points, the effects on polymerizations factors such as regio- and stereo-selectivity, activity, Lewis basicity, initial alkyl ...

## **Stereospecific Olefin Polymerization with Chiral ...**

Olefin polymerization process using pretreated catalyst US 4,276,400 A; Filed: 06/13/1979; Issued: 06/30/1981; Est. Priority Date: 09/28/1977; Status: Expired due to Term x

## **Olefin metathesis - Wikipedia**

catalyzed polyinsertion and Giulio Natta's discovery of the stereoselective polymerization of  $\alpha$ -olefins,[1-4] we are witnessing the evolution of new generations of catalysts and polyolefin materials, which originate from studies on homogeneous, metal-locene-based polymerization catalysts. In the following, we will

### **Bing: Stereospecific Olefin Polymerization Catalyzed By**

Stereospecific olefin polymerization catalysts Patent Bercaw, John E [Pasadena, CA]; Herzog, Timothy A [Pasadena, CA] A metallocene catalyst system for the polymerization of  $\alpha$ -olefins to yield stereospecific polymers including syndiotactic, and isotactic polymers.

### **Stereospecific Polymerizations of Conjugated Dienes by ...**

Xiaohui Kang, Yi Luo, Zhaomin Hou, Theoretical Insights into Olefin Polymerization Catalyzed by Cationic Organo Rare-Earth Metal Complexes, Computational Quantum Chemistry, 10.1016/B978-0-12-815983-5.00010-6, (327-356), (2019).

### **Olefin Polymerization**

In a third development leading up to olefin metathesis, researchers at Phillips Petroleum Company in 1964 described olefin disproportionation with catalysts molybdenum hexacarbonyl, tungsten hexacarbonyl, and molybdenum oxide supported on alumina for example converting propylene to an equal mixture of ethylene and 2-butene for which they proposed a reaction mechanism involving a cyclobutane (they called it a quasicyclobutane) - metal complex:

### **Olefin Polymerization with Ziegler-Natta Catalyst ...**

Precise control over olefin polymerization, especially polymer stereochemistry, through artful catalyst design is attractive and highly challenging. A rigid cyclic framework was first introduced into bis (phenoxyaldimine) titanium catalysts to study its effects on polymerization behaviors.

### **Heteroatom-assisted olefin polymerization by rare-earth ...**

Abstract. Current studies on novel, metallocenebased catalysts for the polymerization of  $\alpha$ -olefins have far-reaching implications for the development of new materials as well as for the understanding of basic reaction mechanisms responsible for the growth of a polymer chain at a catalyst center and the control of its stereoregularity. In contrast to heterogeneous Ziegler-Natta catalysts, polymerization by a homogeneous, metallocene-based catalyst occurs principally at a single type ...

### **Catalytic Polymerization of Olefins, Volume 25 - 1st Edition**

Suzuki N. Stereospecific Olefin Polymerization Catalyzed by Metallocene Complexes. In: Metallocenes in Regio- and Stereoselective Synthesis. Topics in

Organometallic Chemistry, vol 8.

## **Stereospecific Olefin Polymerization with Chiral ...**

Cationic rare earth metal alkyls as novel catalysts for olefin polymerization and copolymerization. *Journal of Organometallic Chemistry* 2006, 691 (14) , 3114-3121. DOI: 10.1016/j.jorganchem.2006.01.055. Dilip Chandra Deb Nath, Christopher M. Fellows, Takeshi Shiono.

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