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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 Catalyzed by ...

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Abstract. Developing well-defined iron-based catalysts for olefin metathesis would be a breakthrough achievement in the field not only to replace existing catalysts by inexpensive metals but also to attain a new reactivity taking advantage of the unique electronic structure of the base metals. Here, we present two-coordinate homoleptic iron complex Fe (HMTO) 2 [HMTO = O0.2,60 (2,4,6)Me 3 C 6 H 2 ) 2 C 6 H 3 ] capable of performing ring-opening metathesis polymerization of ...

Stereospecific Ring-Opening Metathesis Polymerization of ...

catalyzed polyinsertion and Giulio Natta's discovery of the stereoselective polymerization of  $\alpha$ -olefins,' -41 we are witness- ing 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

Stereospecific Olefin Polymerization with Chiral ...

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Stereospecific Ring-Opening Metathesis Polymerization of Norbornene Catalyzed by Iron Complexes Developing well-defined iron-based catalysts for olefin metathesis would be a breakthrough achievement in the field not only to replace existing catalysts by inexpensive metals but also to attain a new reactivity taking advantage of the unique electronic structure of the base metals.

Stereospecific Ring-Opening Metathesis Polymerization of ...

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 ...

Theoretical Insights into Olefin Polymerization Catalyzed ...

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 Olefin Polymerization Catalyzed By

Stereoselective Polymerization of Conjugated Dienes and Styrene | Butadiene Copolymerization Promoted by Octahedral Titanium Catalyst. Macromolecules 2007, 40 (16), 5638-5643. DOI: 10.1021/ma070543u. Vernon C. Gibson., Carl Redshaw, and, Gregory A. Solan.

Stereospecific Polymerizations of Conjugated Dienes by ...

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Abstract. A mechanism for the stereospecific polymerization of olefins by Ziegler-Natta catalysts is developed which differs significantly from previous mechanisms in the proposal that it proceeds via a 1,2-hydrogen shift from the  $\beta$ -carbon of the polymer chain and formation of metallocycle and carbene intermediates. This article is part of the themed collection: Malcolm Green FRS: In celebration of his 80th Birthday.

Mechanism for the stereospecific polymerization of olefins ...

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).

Olefin Polymerization with Ziegler-Natta Catalyst ...

Stereospecific Synthesis of Poly (methylene-E-vinylene) by Ring Opening Metathesis Polymerization of Substituted Cyclopropene Using Grubbs Catalysts. Macromolecules 2019, 52 (20), 7749-7755. DOI: 10.1021/acs.macromol.9b01956. Marco A. B. Ferreira, Jordan De Jesus Silva, Samantha Grosslight, Alexey Fedorov, Matthew S. Sigman, Christophe Copéret.

Z-Selective Olefin Metathesis Processes Catalyzed by a ...

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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...

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

While group 4 metallocene-based olefin polymerization catalysts have dominated the field of homogenous olefin polymerization catalysis since the late 1950s, 1 the development of complexes bearing non-Cp ligands as potential olefin polymerization catalysts has become a rapidly expanding area over the last 15 years. 98,99 Scollard and McConville 100 reported that titanium complexes bearing diamide ligands, compounds 30a and 30b (Figure 11), polymerized 1-hexene, 1-octene, and 1-decene to high ...

Polymerization Catalysis - an overview | ScienceDirect Topics

On the Initiation Mechanism of Syndiospecific Styrene Polymerization Catalyzed by Single-Component ansa-Lanthanidocenes Lionel Perrin Dr. LPCNO, UMR 5215, Université de Toulouse | CNRS, INSA, UPS135 avenue de Rangueil, 31077 Toulouse (France), Fax: (+33) 22302360939