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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.

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Abstract. Current studies on novel, metallocenebased catalysts for the polymerization of α -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

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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 ...

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catalyzed polyinsertion and Giulio Natta's discovery of the stereoselective polymerization of α -olefins,[1-4] we are witnessing the evolution of new generations of catalysts and polyolefin materials, which originate from studies on homogeneous, metal-

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Akzo-Nobel. Albemarle. Stereospecific Catalytic Polymerization of α -Olefins. α -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

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molecules to a specific regular orientation (tacticity). 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 ...

Olefin Polymerization

ZN catalysts are effective for

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polymerization of α -Olefins (ethylene, propylene) and some dienes (butadiene, isoprene). However, they don't work for some other monomers, such as 1,2-disubstituted double bonds. Vinyl chloride cannot be polymerized by ZN catalyst either, because free radical vinyl polymerization is initiated during the reaction.

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Olefin Polymerization with Ziegler- Natta Catalyst ...

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

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polymerization of α -olefins: recent developments and unsolved problems (P. Pinot et al.). Index.

Catalytic Polymerization of Olefins, Volume 25 - 1st Edition

Precise control over olefin polymerization, especially polymer stereochemistry, through artful catalyst

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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.

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

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Highly stereospecific polymerization of isoprene was achieved using borohydridoneodymium complexes. In combination with stoichiometric amounts of dialkylmagnesium, $\text{Nd}(\text{BH}_4)_3(\text{THF})_3$ (1) and $\text{Cp}^*\text{Nd}(\text{BH}_4)_2(\text{THF})_2$ (2) ($\text{Cp}^* = \text{C}_5\text{Me}_4\text{nPr}$) afford very efficient catalysts. The activity reaches 37300 (g of polyisoprene/mol of Nd)/h.

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Highly trans-Stereospecific Isoprene Polymerization by ...

The Phillips Triolefin and the Olefin conversion technology. This process interconverts propylene with ethylene and 2-butenes. Rhenium and molybdenum catalysts are used. Nowadays, only the reverse reaction,

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i.e., the conversion of ethylene and 2-butene to propylene is industrially practiced, however.

Olefin metathesis - Wikipedia

The present heteroatom-promoted polymerization of α -olefins catalyzed by the rare-earth catalysts stands in sharp contrast with the group 4

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metal-catalyzed polymerization of ether-containing...

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

One of the archetypal reactions in which ion pairing plays a key role is homogeneous catalytic olefin polymerization,^{19, 20, 21, 22,}

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23because olefin polymerization is usually catalyzed by strongly electrophilic (usually $14e^-$) metal cations and carried out in solvents with extremely low relative permittivity (close to 2 such as in hexane, paraffin, toluene and other aromatic solvents).

Ion pairing in transition metal

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Stereospecific Olefin Polymerization Catalyzed by... The stereospecificity for α -olefin polymerization catalyst is governed by the catalysts' ability to discriminate between the two faces of the prochiral α -olefin molecule for a given mode of insertion.

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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

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Stereospecific olefin polymerization catalysts(Patent ...

This section summarizes simple aspects related to the polymerization of α -olefins catalyzed by bis-Cp' titanium complexes containing a σ -Ti-C bond. A more comprehensive review of the catalytic

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applications of titanium complexes in the α -olefin polymerization processes is covered in Chapter 4.09.

Polymerization Catalysis - an overview | ScienceDirect Topics

A non-coordinating anion, preferably containing a sterically shielded diboron hydride, if combined with a cyclopenta-

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dienyl-substituted metallocene cation component, such as a zirconocene metallocene, is a useful olefin polymerization catalyst component.

Stereospecific olefin polymerization catalysts(Patent ...

Xiaohui Kang, Yi Luo, Zhaomin Hou,
Theoretical Insights into Olefin

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Polymerization Catalyzed by Cationic
Organo Rare-Earth Metal Complexes,
Computational Quantum Chemistry,
10.1016/B978-0-12-815983-5.00010-6,
(327-356), (2019).

On the Initiation Mechanism of Syndiospecific Styrene ...

Tomoyuki Toda, Norio Nakata, Tsukasa

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Matsuo, Akihiko Ishii, Extremely active α -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).

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Stereospecific olefin polymerization pathways at archetypal C_s - and C_1 -symmetric metallocenium catalysts using mono- and polynuclear halo-perfluoroarylmatalates as cocatalysts

John A.S. Roberts , Ming Chou Chen, Afif M. Seyam, Ting Li, Cristiano Zuccaccia,

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