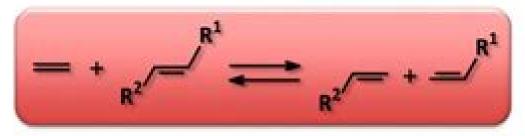
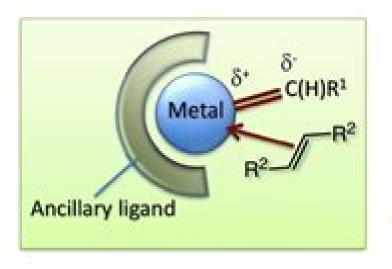
# Olefin metathesis polymerization



Acyclic Diene Metathesis (ADMET)
Ring Opening Metathesis Polymerization (ROMP)



$$[M]=C, R^{1}$$

$$H \rightarrow R^{2}$$

$$R^{2} \stackrel{[M]}{\longrightarrow} R^{2} \stackrel{H}{\longrightarrow} R^{2} \stackrel{R^{1}}{\longrightarrow} H$$

# **Olefin Metathesis And Metathesis Polymerization**

Yavuz Imamogammalu,Birgül Zümreogammalu-Karan,Allan J. Amass

#### **Olefin Metathesis And Metathesis Polymerization:**

Olefin Metathesis and Metathesis Polymerization K. J. Ivin, J. C. Mol, 1997-01-07 This book is a follow up to Ivins Olefin Metathesis Academic Press 1983 Bringing the standard text in the field up to date this Second Edition is a result of rapid growth in the field sparked by the discovery of numerous well defined metal carbene complexes that can act as very efficient initiators of all types of olefin metathesis reaction including ring closing metathesis of acyclic dienes enynes and dienynes ring opening metathesis polymerization of cycloalkenes acyclic diene metathesis polymerization and polymerization of alkynes as well as simple olefin metathesis Olefin Metathesis and Metathesis Polymerization provides a broad up to date account of the subject from its beginnings in 1957 to the latest applications in organic synthesis. The book follows the same format as the original making it useful toteachers and to researchers and will be of particular interest to those working in the fields of organic chemistry polymer chemistry organometallic chemistry catalysis materials science and chemical engineering Discusses different classes of olefin metathesis and the choice of reaction conditions and catalyst Considers commercial processes with examples from existing and new technologies Provides a complete overview of the subject from its beginning to the present day Metathesis Polymerization of Olefins and Polymerization of Alkynes Yavuz Imamogammalu, 2012-12-06 The first NATO Advanced Study Institute on Olefin Metathesis and Polymerization Catalysts was held on September 10 22 1989 in Akcay Turkey Based on the fundamental research of RRSchrock RGrubbs and K B Wagener in the field of ring opening metathesis polymerization ROMP acyclic diene metathesis ADMET and alkyne polymerization these areas gained growing interest within the last years Therefore the second NATO ASI held on metathesis reactions was on Ring Opening Metathesis Po lymerization of Olefins and Polymerization of Alkynes on September 3 16 1995 in Akcay Turkey The course joined inorganic organic and polymer chemists to exchange their knowledge in this field This volume contains the main and short lectures held in Akcay To include ADMET reactions better into the title of this volume we changed it into Metathesis Polymerization of Olefins and Alkyne Polymerization This volume is addressed to research scientists but also to those who start to work in the area of olefin metathesis and alkyne polymerization. The topics of the course were mechanism of ROMP reactions new catalysts for ROMP new products by ROMP new catalysts for ADMET new products by ADMETI degradation of polymer by metathesis reactions alkyne polymerization and metathesis industrial application of metathesis reactions The Advanced Study Institute was generously sponsored by the Scientific Affairs Division of NATO and the editor gratefully acknowledges this sponsorship We also thank the Members of the Local Organizing Committee for their engagement on a successful NATO AS

Olefin Metathesis and Ring-opening Polymerization of Cyclo-olefins Valerian Drăguțan, Alexandru T. Balaban, Mihai Dimonie, 1985 Olefin Metathesis and Polymerization Catalysts Yavuz Imamogammalu, Birgül Zümreogammalu-Karan, Allan J. Amass, 2012-12-06 Olefin metathesis reaction can be considered as one of the most successful organic reactions with many applications in the low molecular weight range and

also in the polymer field The use of catalysts with their selective and effective transformation properties in olefin metathesis I polymerization systems is a growing interest There has been great effort and competition in developing active and commercially useful catalysts The main aim of this ASI was to gather several research groups and also the people from industry to present existing knowledge and latest results in the field A wide range of topics through homogeneous and heterogeneous aspects have been considered Attention has been drawn to the metal carbene and metallacyclobutane complexes as active species the initiation mechanisms the stereochemistry and thermodynamics of these reactions New catalytic systems for the metathesis of alkenes and alkynes and fot ring opening polymeriZation I block copolymerization reactions have been introduced Spectroscopic studies for the characteriZation of catalysts simulation studies explaining the function of chain carrier species and polymer degradation have also been covered A detailed industrial report concerning the patents and applications in olefin metathesis I cyc1001efin polymerization area fabrication and derivation has been presented This volume contains the main lectures and seminars given at the NATO Advanced Study Institute on Olefin Metathesis and Polymerization Catalysts Synthesis Mechanism and Utilization held at Akcay Babkesir Turkey between 10th and 22nd September 1989 Ring Opening Metathesis Polymerisation and Related Chemistry Ezat Khosravi, T. Szymanska-Buzar, 2002-03-31 Proceedings of the NATO Advanced Study Institute held in Polaica Zdroj Poland 3 15 Olefin Metathesis and Polymerization Catalysts Yavuz Imamogammalu, Birgül September 2000 Zümreogammalu-Karan, Allan J. Amass, 1990-11-30 Proceedings of the NATO Advanced Study Institute Ak ay Turkey September 10 22 1989 Metathesis Polymerization of Olefins and Polymerization of Alkynes Yavuz Imamogammalu, 2014-01-15 Metathesis Polymerization Michael R. Buchmeiser, 2005-02-18 **Olefin Metathesis** Kenneth John Ivin, 1983 Olefin Metathesis in Supramolecular and Ring-opening Polymerization Jedidiah M. Hastings, 2006 ABSTRACT The need to develop dynamic materials that are capable of changing their properties in response to a changing environment has grown significantly over the past decade As a result new approaches to the synthesis of these smart materials are constantly being illuminated Olefin metathesis has recently been elevated to the forefront of this area as it has proven a reliable and versatile method for creating new carbon carbon bonds. This allows for the incorporation of diverse functionality without a corresponding increase in synthetic difficulty or complexity The work presented in this dissertation focuses on the creation of dynamic libraries of supramolecular polymers via olefin cross metathesis The polymers are synthesized from cytosine or easily prepared 2 4 diaminotriazines Functional groups ranging from aromatic systems alkanes and amino acids have been incorporated onto the backbones without altering the synthetic strategy Binding constants have been found to be similar in strength to related compounds In addition to the creation of supramolecular polymers olefin metathesis has been used in this study to create designer polymers with a traditional covalently bound backbone These polymers have contained functionality ranging from chiral diols which were shown to direct the

stereochemistry of Grignard reactions to nucleic acid bases which can interact with their environment via Hydrogen bonding Ring opening metathesis polymerization was used to create the designer polymers from norbornene derived bicyclic ring systems The chiral diols were prepared from commercially available diethyl L tartrate The nucleic acid bases were cytosine and adenine Efforts have been started toward the incorporation of guanine and thymine

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