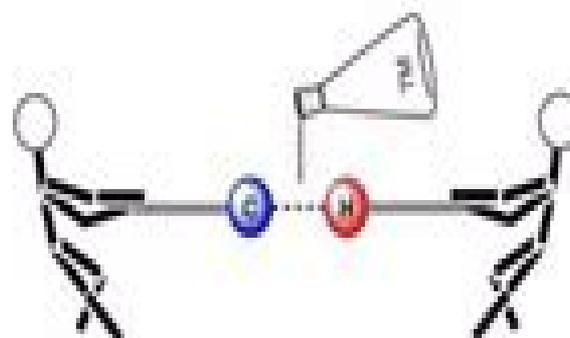


C-H ACTIVATION/FUNCTIONALIZATION

C-H activation is defined as the cleavage of unreactive C-H bond, followed by C-C or C-X (X= N, O, S) bond formation to give rise to a desired functionalized molecule

Or

Catalytic reactions of transition metal complexes with the **unreactive C-H bonds** of **alkanes, arenes, or alkyl chains** to form products containing a new **metal-carbon bond** which is the most fundamental linkage in organic chemistry



Chem. Soc. Rev., 2014, 43, 6906–6919,

F. Roudesly et al. / *Journal of Molecular Catalysis A: Chemical*, 426 (2017) 275–296

Activation And Functionalization Of Alkanes

Zhanmiao Zheng



Activation And Functionalization Of Alkanes:

Activation and Functionalization of Alkanes Craig L. Hill, 1989-05-10 An international group of contributors presents recent developments in the study of the mechanisms structure reactivity relations and other aspects of alkane transformation processes Special attention is given to highly selective catalytic high conversion alkane functionalization processes homogeneous processes especially those in the liquid phase Principal approaches to transforming activating and functionalizing alkanes are discussed along with the preparative potentials of these processes Alkane Functionalization Armando J. L. Pombeiro, Maria de Fatima Costa Guedes da Silva, 2018-12-28 Presents state of the art information concerning the syntheses of valuable functionalized organic compounds from alkanes with a focus on simple mild and green catalytic processes Alkane Functionalization offers a comprehensive review of the state of the art of catalytic functionalization of alkanes under mild and green conditions Written by a team of leading experts on the topic the book examines the latest research developments in the synthesis of valuable functionalized organic compounds from alkanes The authors describe the various modes of interaction of alkanes with metal centres and examine the oxidative alkane functionalization upon C O bond formation They address the many types of mechanisms discuss typical catalytic systems and highlight the strategies inspired by biological catalytic systems The book also describes alkane functionalization upon C heteroatom bond formation as well as oxidative and non oxidative approaches In addition the book explores non transition metal catalysts and metal free catalytic systems and presents selected types of functionalization of sp³ C H bonds pertaining to substrates other than alkanes This important resource Presents a guide to the most recent advances concerning the syntheses of valuable functionalized organic compounds from alkanes Contains information from leading experts on the topic Offers information on the catalytic functionalization of alkanes that allows for improved simplicity and sustainability compared to current multi stage industrial processes Explores the challenges inherent with the application of alkanes as starting materials for syntheses of added value functionalized organic compounds Written for academic researchers and industrial scientists working in the fields of coordination chemistry organometallic chemistry catalysis organic synthesis and green chemistry Alkane Functionalization is an important resource for accessing the most up to date information available in the field of catalytic functionalization of alkanes *Activation and Functionalization of C-H Bonds* Karen I. Goldberg, Alan S. Goldman, American Chemical Society. Meeting, 2004 Activation and Functionalization of C H Bonds explores recent developments in the reaction chemistry of solution phase transition metal based systems with simple hydrocarbons and with more complex organic molecules More than 20 internationally leading research groups contributed to this volume and their chapters cover such topics as fundamental theoretical and mechanistic studies of C H bond activation by metal complexes catalytic systems for alkane functionalization and new applications in synthetic organic chemistry An introductory chapter offers an overview of stoichiometric and catalytic reactions of C H bonds with transition metal complexes The C H bond is the most widespread

linkage in organic chemistry present in virtually every organic molecule Unfortunately C H bonds are famously resistant to selective chemical transformations The development of methods for their selective transformations has enormous potential value in fields ranging from the chemistry of fuels for example the conversion of methane to methanol to the synthesis of the most complex organic molecules

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Organometallic Chemistry and Catalysis Didier Astruc,2007-08-14 This volume covers both basic and advanced aspects of organometallic chemistry of all metals and catalysis In order to present a comprehensive view of the subject it provides broad coverage of organometallic chemistry itself The catalysis section includes the challenging activation and fictionalization of the main classes of hydrocarbons and the industrially crucial heterogeneous catalysis Summaries and exercises are provided at the end of each chapter and the answers to these exercises can be found at the back of the book Beginners in inorganic organic and organometallic chemistry as well as advanced scholars and chemists from academia and industry will find much value in this title

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Mechanistic Insights Into Alkane C-H Activation and Functionalization by Metal Oxide Surfaces and Organometallic Complexes Mu-Jeng Cheng, William A. Goddard (III.), California Institute of Technology. Division of Chemistry and Chemical Engineering, 2012

Alkane Activation and Functionalization Craig L. Hill, 1989

The Activation and Functionalization of Alkanes Via Polyoxotungstate Photocatalysis Zhanmiao Zheng, 1999

Noncovalent Interactions in Catalysis Kamran T Mahmudov, Maximilian N Kopylovich, M Fatima C Guedes da Silva, Armando J L Pombeiro, 2019-03-04 This book provides an overview of the role of different types of noncovalent interactions in both homogeneous and heterogeneous catalysis

Catalytic Activation and Functionalisation of Light Alkanes E.G. Derouane, Jerzy Haber, Francisco Lemos, Fernando Ramôa Ribeiro, Michel Guisnet, 2013-11-11 Light alkanes tend to be resistant to many forms of activation The horizontal approach of the present book covers homogeneous heterogeneous and biological catalysis thus allowing readers to gain an awareness of progress and ideas in research areas different from their own The book contains both general chapters giving an overview of the subject and specialised contributions that deal with the details and state of the art A specialist report is also included which gives a critical insight into current progress and discusses future prospects and major challenges Audience Newcomers and senior researchers in the field of alkane activation The mixed theoretical and practical approach will be of interest to researchers and industrialists alike

Chemistry and Industry, 1991

Applied Homogeneous Catalysis with Organometallic Compounds Boy Cornils, Wolfgang A. Herrmann, 2002-05-22 Homogeneous catalysis is the success story of organometallic chemistry Since the discovery of hydroformylation by O Roelen in 1938 catalytic applications have paved the way of organometallic compounds in industry Bulk and fine chemicals and even natural products are being produced via homogeneous organometallic catalysis The enormous breadth of this topic in view of both basic research and industrial application is met in this three volume handbook edited jointly by W A Herrmann and B Cornils The list of contributors reads like a who is who in organometallic chemistry and homogeneous catalysis In this handbook experts will find the current state of the art in their field and advanced students will benefit from the concise treatment of important catalytic reactions and processes With its balanced presentation of the truly interdisciplinary topic and its outstanding editor and authorship the Cornils Herrmann is beyond common standards Now in its second completely revised and enlarged edition

Organic Mechanisms Xiaoping Sun, 2013-06-05 Instills a deeper understanding of how and why organic reactions happen Integrating reaction mechanisms synthetic methodology and biological applications Organic Mechanisms

gives organic chemists the tools needed to perform seamless organic reactions By explaining the underlying mechanisms of organic reactions author Xiaoping Sun makes it possible for readers to gain a deeper understanding of not only chemical phenomena but also the ability to develop new synthetic methods Moreover by emphasizing biological applications this book enables readers to master both advanced organic chemistry theory and practice Organic Mechanisms consists of ten chapters beginning with a review of fundamental physicochemical principles that are essential for understanding the nature of organic mechanisms Each one of the remaining chapters is devoted to a major class of organic reactions including Aliphatic C H bond functionalization Functionalization of the alkene C C bond by cycloaddition reactions Nucleophilic substitutions on sp³ hybridized carbons Nucleophilic additions and substitutions on carbonyl groups Reactivity of the hydrogen to carbonyl groups Rearrangements A brief review of basic organic chemistry begins each chapter helping readers move from fundamental concepts to an advanced understanding of reaction mechanisms Key mechanisms are illustrated by expertly drawn figures highlighting microscopic details End of chapter problems enable readers to put their newfound knowledge into practice by solving key problems in organic reactions with the use of mechanistic studies and a Solutions Manual is available online for course instructors Thoroughly referenced and current with recent findings in organic reaction mechanisms Organic Mechanisms is recommended for upper level undergraduates and graduate students in advanced organic chemistry as well as for practicing chemists who want to further explore the mechanistic aspects of organic reactions

Rodd's Chemistry of Carbon Compounds E. H. Rodd, 1964 *Advances in Organometallic Chemistry* Pedro J. Perez, 2018-10-25 *Advances in Organometallic Chemistry* Volume 70 contains authoritative review articles of worldwide known researchers in the field of organometallic chemistry This longstanding serial is known for its comprehensive coverage of topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more It is ideal for a wide range of researchers involved in organometallic chemistry including synthetic protocols mechanistic studies and practical applications Topics of note in this new release include Carbon Dioxide Electroreduction Catalyzed by Organometallic Complexes Single electron Elementary Steps in Homogeneous Organometallic Catalysis Recent advances in catalytic hydrosilylation of carbonyl groups mediated by well defined first row late transition metals and more Contains contributions from leading authorities in the field of organometallic chemistry Covers topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more Informs and updates readers on the latest developments in the field Carefully edited to provide easy to read material **Journal** American Chemical Society, 2003 **Mechanisms of Inorganic and Organometallic Reactions**, 1983 **Mechanisms of Inorganic and Organometallic Reactions** M. V. Twigg, 1983

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