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Andrei K. Yudin



Aziridines And Epoxides In Organic Synthesis:

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compared and the latest advances are described Comprehensive listing of epoxide products Broad comparison of turnover frequencies of homogeneous heterogeneous main group biomimetic and biological catalysts Analysis of the general strengths and weaknesses of varied catalytic systems Detailed description of the mechanisms of reaction for classical and emerging catalysts **Organic Syntheses, Volume 94** Margaret Faul, 2018-07-18 The current volume continues the tradition of the Organic Syntheses series providing carefully checked and edited experimental procedures that describe important synthetic methods transformations reagents and synthetic building blocks or intermediates with demonstrated utility in organic synthesis These significant and interesting procedures should prove worthwhile to many synthetic chemists working in increasingly diverse areas A trusted guide for professionals in organic and medicinal chemistry in academia government and industries including pharmaceuticals fine chemicals agrochemicals and biotechnological products **Synthesis of 4- to 7-membered Heterocycles by Ring Expansion** Matthias D'hooghe, Hyun-Joon Ha, 2015-12-14 The series Topics in Heterocyclic Chemistry presents critical reviews on present and future trends in the research of heterocyclic compounds Overall the scope is to cover topics dealing with all areas within heterocyclic chemistry both experimental and theoretical of interest to the general heterocyclic chemistry community The series consists of topic related volumes edited by renowned editors with contributions of experts in the field All chapters from Topics in Heterocyclic Chemistry are published Online First with an individual DOI In references Topics in Heterocyclic Chemistry is abbreviated as Top Heterocycl Chem and cited as a journal **Nickel Catalysis in Organic Synthesis** Sensuke Ogoshi, 2020-03-09 A comprehensive reference to nickel chemistry for every scientist working with organometallic catalysts Written by one of the world's leading researchers in the field Nickel Catalysis in Organic Synthesis presents a comprehensive review of the high potential of modern nickel catalysis and its application in synthesis Structured in a clear and assessable manner the book offers a collection of various reaction types such as cross coupling reactions reactions for the activation of unreactive bonds carbon dioxide fixation and many more Nickel has been recognized as one of the most interesting transition metals for homogeneous catalysis This book offers an overview to the recently developed new ligands new reaction conditions and new apparatus to control the reactivity of nickel catalysts allowing scientists to apply nickel catalysts to a variety of bond forming reactions A must read for anyone working with organometallic compounds and their application in organic synthesis this important guide Reviews the numerous applications of nickel catalysis in synthesis Explores the use of nickel as a relatively cheap and earth abundant metal Examines the versatility of nickel catalysis in reactions like cross coupling reactions and CH activations Offers a resource for academics and industry professionals Written for catalytic chemists organic chemists inorganic chemists structural chemists and chemists in industry Nickel Catalysis in Organic Synthesis provides a much needed overview of the most recent developments in modern nickel catalysis and its application in synthesis **Methods and Applications of Cycloaddition Reactions in Organic Syntheses** Nagatoshi Nishiwaki, 2013-12-17 Advanced tools for developing new functional materials and

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